ORDER NO. HAD8705139C0

Service Manual

Cassette Deck

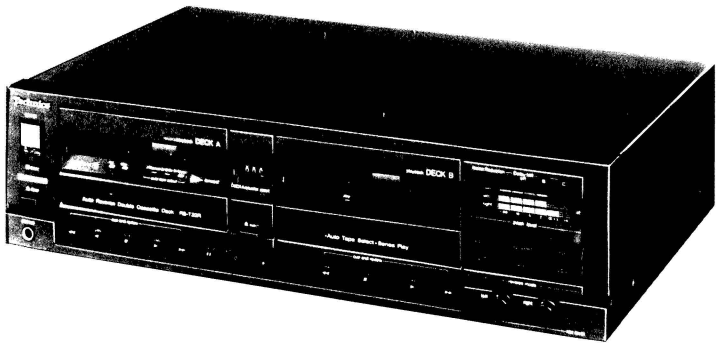
RS-T33R

Dolby B-C NR, Auto-Reverse
Double Cassette Deck

* DOLBY B•C NR

Color

(K)...Black Type
(S)...Silver Type



Color	Areas
(K) (S)	[M].....U.S.A.
(K) (S)	[MC].....Canada.
(K) (S)	[E].....All European areas except United Kingdom.
(K) (S)	[EK].....United Kingdom.
(K) (S)	[EG].....F.R. Germany.
(K) (S)	[EH].....Holland.
(K) (S)	[XA].....Asia, Latin America, Middle Near East and Africa.
(K) (S)	[XL].....Australia.
(K) (S)	[XB].....Saudi Arabia.

SPECIFICATIONS

Deck system Stereo cassette deck
Track system 4-track, 2-channel
Heads
(DECK A) REC/PLAY Solid Permaloy head
Erasing Double-gap ferrite head
(DECK B) PLAY Solid Permaloy head
Motors
(DECK A) Capstan/reel table drive
2 speed electronically controlled DC motor
(DECK B) Capstan/reel table drive
2 speed electronically controlled DC motor
Recording system AC bias
Bias frequency 77 kHz
Erasing system AC erase
Tape speed 4.8 cm/sec. (1-7/8 ips)
Frequency response (w/o Dolby N.R.)
METAL 20 Hz~18 kHz (±15 dB)
30 Hz~17 kHz (DIN)
CrO_2 20 Hz~17 kHz (±15 dB)
30 Hz~16 kHz (DIN)
NORMAL 20 Hz~16 kHz (±15 dB)
30 Hz~15 kHz (DIN)
S/N (signal level = max recording level, CrO_2 type tape)
Dolby C NR on 74 dB (CCIR)
Dolby B NR on 66 dB (CCIR)
NR off 56 dB (A weighted)

Wow and flutter 0.07% (WRMS) [E, EK, EG, EH]
0.01% (WRMS) [others]
±0.2% (DIN)
Fast Forward and Rewind Time
Approx. 95 seconds with C-60 cassette tape
Input sensitivity and impedance
LINE 60 mV/47 kΩ
Output voltage and impedance
LINE 400 mV/3 kΩ
HEADPHONES 80 mV

■ GENERAL

Power consumption 20W
Power supply
For U.S.A and Canada AC 60 Hz, 120V
For United Kingdom and Australia AC 50 Hz/60 Hz, 240V
For continental Europe AC 50 Hz/60 Hz, 220V
For others AC 50 Hz/60 Hz, 110V/127V/220V/240V
Dimensions (W × H × D) 430 × 118.6 × 273.5 mm
(16-15/16" × 4-11/16" × 10-25/32")
Weight 5.2 kg (11.5 lb.)

Note:
Specifications are subject to change without notice.
Weight and dimensions are approximate.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Technics

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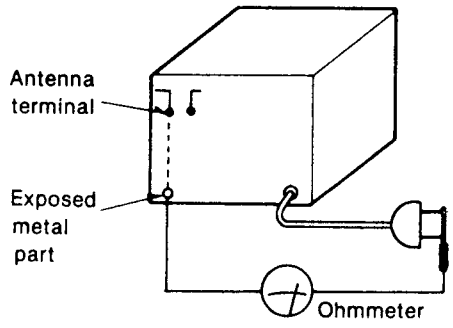
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

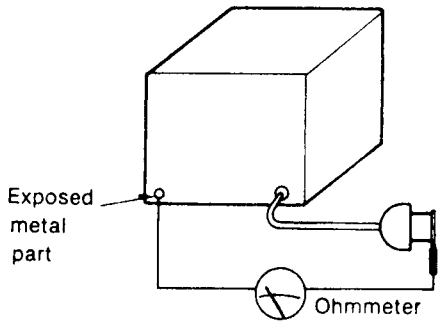
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ



(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ LOCATION OF CONTROLS

•Headphones jack (phones)

Recording-level controls (rec level)•
Used to adjust the recording level.

•Power switch (power)

Noise-reduction switches/indicators •
(Noise Reduction)

•Timer stand-by switch (⏲ timer)
This switch is to be used in order to perform an unattended recording or preset playback operation.

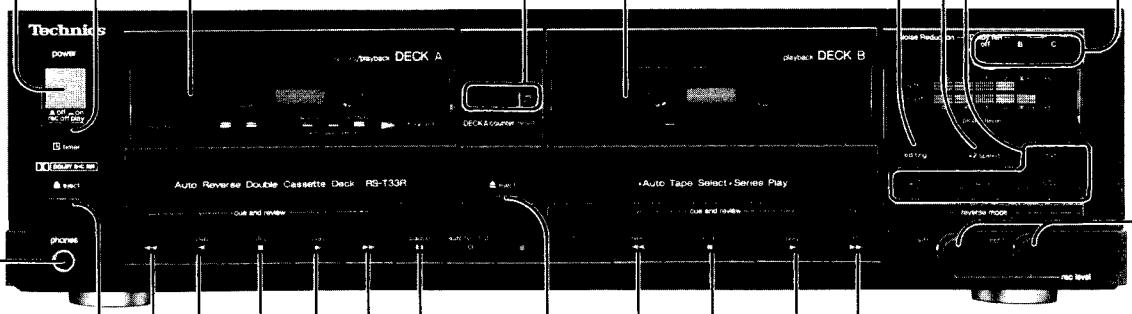
Reverse mode selectors/indicators
(reverse mode)

Editing tape-speed •
selector/indicator (×2 speed)
Press to select the tape speed for edit-recording.
To select the "×2", press this selector so that the indicator will illuminate.

"DECK A" counter/reset button •
("DECK A" counter/reset)
This indicates the amount of tape travel of "DECK A". When this button is pressed, the readout will be reset to "000".

Edit-recording switch/ •
indicator (editing)
Press this button for edit-recording (from "DECK B" to "DECK A" only).
To select the "on", press this switch so that the indicator will illuminate.

•Cassette holder **•Cassette holder**



Eject button •
(eject/⏏)

Rewind/fast-forward
button (◀◀)

Reverse-side playback
button (play/◀)

Stop button (stop/■)•

Forward-side playback •
button (play/▶)

Fast-forward/rewind button (▶▶)•

Pause button (pause/❚❚)•
Press this button to stop tape temporarily.

•Fast-forward button (ff/▶▶)
When in the stop mode, press this button to advance the tape rapidly. When in the play mode, press this button to fast forward the tape while monitoring the sound.

•Playback button (play/▶)
Press this button to playback a tape.

•Stop button (stop/■)
Press this button to stop the tape.

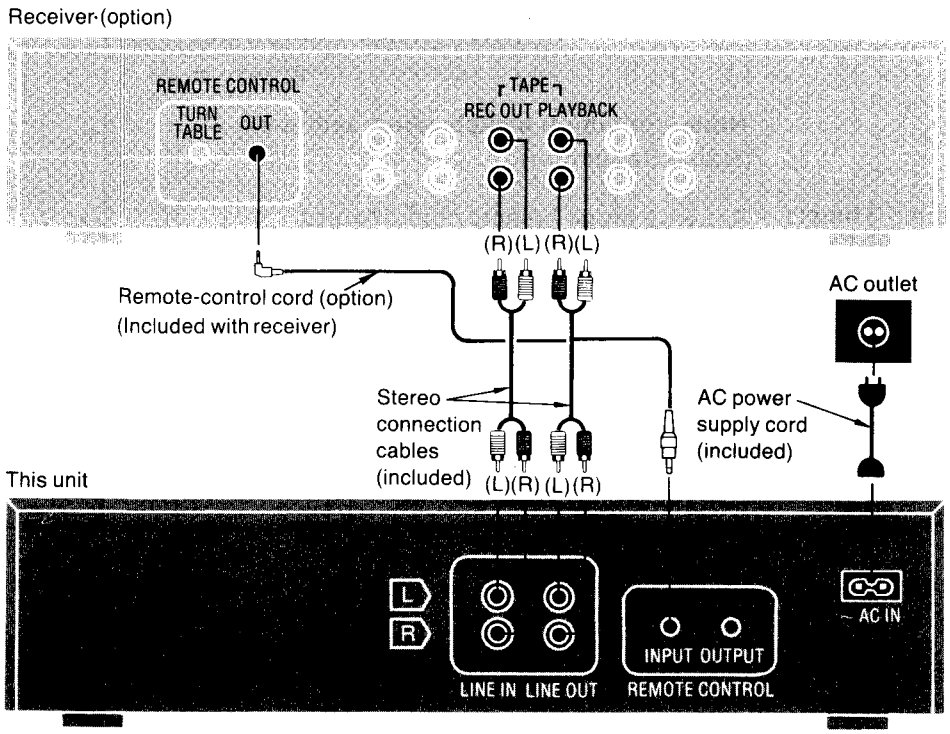
•Rewind button (rew/◀◀)
When in the stop mode, press this button to rewind the tape rapidly. When in the play mode, press this button to rewind the tape while monitoring the sound.

•Eject button (eject/⏏)
Press this button to open the cassette holder.

When using "DECK A" (Auto reverse)

When using "DECK B" (Only forward-side)

■ HOW TO CONNECTION



Configuration of AC power supply cord differs according to area.

■ Remote-control "INPUT" terminal

Connection can be made with a Technics receiver that has a remote-control terminal.

■ Remote-control "OUTPUT" terminal

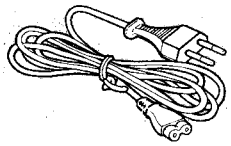
This terminal can be used only with Technics graphic equalizer or compact disc player having a remote control terminal for a tape deck.

Placement hints

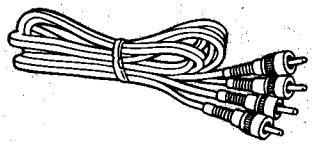
If this unit is placed near a receiver, a "hum" noise may be heard during tape playback, recording, or AM reception of the receiver.
If this occurs, leave as much space as possible between the units, or place them where there is the least amount of "hum".

■ ACCESSORIES (included)

- AC power supply cord 1
  ([M, MC] ..... SJA172)
  ([E, EG, EH] ..... SFDAC05E03)
  ([EK] ..... SFDAC05G02)
  ([XL] ..... SJA173)
  ([XA] ..... SJA168-1)
  ([XB] ..... SJA183)



- Stereo connection cables 2
  (SJPK2202)



- AC plug (For [XA, XB]) 1
  (SJP9215)

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	**How to remove the cabinet**
Procedure 1	• Remove the 7 screws.
Ref. No. 2	**How to remove the main P.C.B.**
Procedure 1 → 2	• Remove the 7 screws (❶~❼).

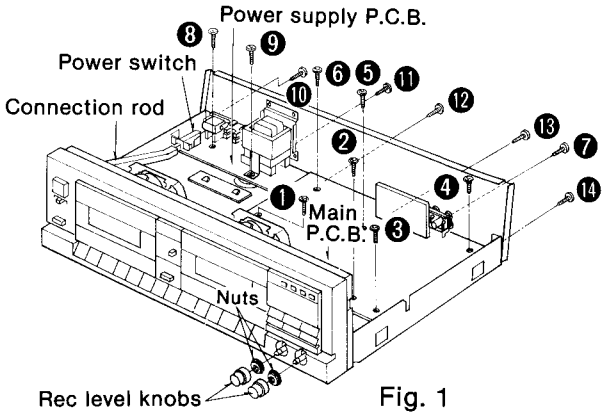


Fig. 1

Ref. No. 3	How to remove the power supply P.C.B.
Procedure 1 → 2 → 3	(Refer to the Fig. 1) • Pull out the connection rod from the power switch. • Remove the 7 screws (❽~⓮), and then remove the power supply P.C.B. and the rear panel together.

Ref. No. 4	How to remove the front panel.
Procedure 1 → 4	• Remove the 11 screws (❶~⓫).

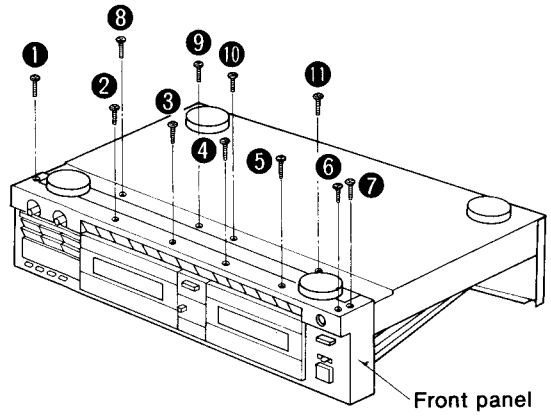


Fig. 2

Ref. No. 5	How to remove the mechanism units.
Procedure 1 → 4 → 5	• Remove the 3 screws (DECK Ⓐ: ❶~❸/DECK Ⓑ: ❹~❻). • Push the eject button. • Remove the counter belt (for the mechanism unit of DECK Ⓐ).

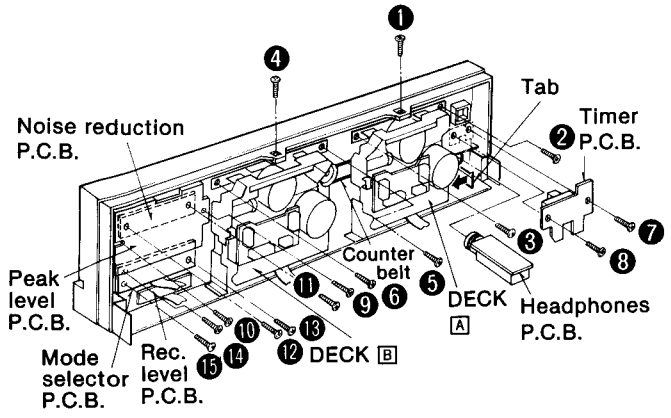


Fig. 3

Ref. No. 6	How to remove the printed circuit boards.
Procedure 1 → 4 → 6	(Refer to the Fig. 3) • Remove the 2 screws (❼, ❽), and then remove the timer P.C.B. • Push the tab aside, and then remove the headphones P.C.B. • Remove the 2 screws (❾, ❿), and then remove the peak level P.C.B. • Remove the 2 screws (⓫, ⓬), and then remove the noise reduction P.C.B. • Remove the 3 screws (⓭~⓯), and then remove the mode selector P.C.B. • Remove the 2 rec. level control knobs and the 2 nuts (refer to the Fig. 1), and then remove the rec. level P.C.B.

Ref. No. 7	How to remove the operation SW P.C.B.
Procedure 1 → 4 → 5 → 7	• Remove the screw (DECK Ⓐ: ❶/DECK Ⓑ: ❷), and the remove the angle. • Remove the 4 screws (DECK Ⓐ: ❸~❻/DECK Ⓑ: ❼~❿).

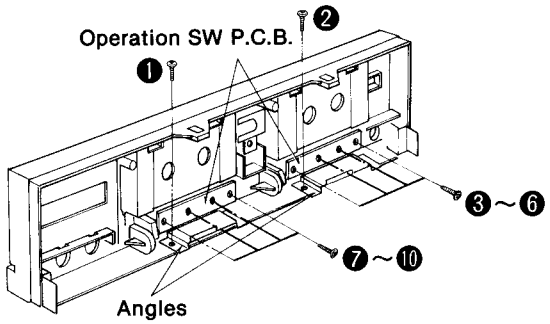


Fig. 4

Ref. No. 8	How to remove the LED P.C.B.
Procedure 8	• Remove the cassette lid (DECK Ⓐ and /or DECK Ⓑ). • Push the 3 tabs in the direction of the arrow, and then remove the LED P.C.B.

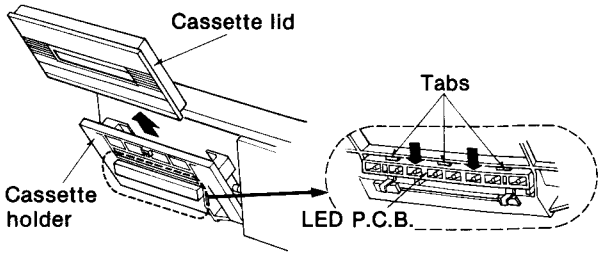


Fig. 5

■ MEASUREMENT AND ADJUSTMENT METHODES

Measurement Condition

- Input level controls; Maximum
- Timer start switch; Off
- Noise reduction switch; Off
- Editing switch; Off
- Reverse mode selectors; Off
- Editing tape speed switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C(68±9°F)

Measuring instrument

- EVM(Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator
- ATT(Attenuator)
- DC voltmeter
- Resistor (600Ω)

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Overall frequency response, Overall gain adjustment
  Normal reference blank tape;QZZCRA
  CrO_2 reference blank tape; QZZCRX
  Metal reference blank tape; QZZCRZ

HEAD AZIMUTH ADJUSTMENT ("DECK A" and "DECK B")

1.Playback the azimuth adjustment portion (8kHz, -20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.

Note: If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.

2.Perform the same adjustment in the reverse play mode.

forward and reverse rotation level difference check ("DECK A" only)

3.Playback the gain adjustment portion (315Hz ,0 dB) of the test tape (QZZCFM), and then assure that the forward and reverse rotation level difference is within 1 dB.

4.After the adjustment, apply screwlock to the azimuth adjusting screw.

(Procedure; DECK A... 1 to 4/ DECK B... 1 to 2).

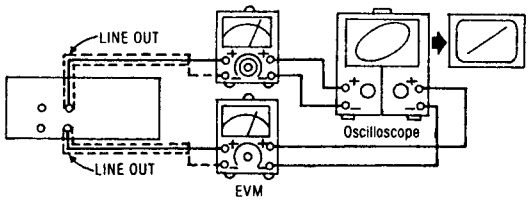
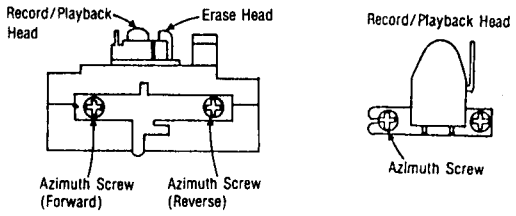


Fig. 1



(DECK A) (DECK B)

Fig. 2

TAPE SPEED ADJUSTMENT ("DECK A" and "DECK B")

High speed

1.Shift the editing tape speed switch to "**X2**" and ground **TP4**.
2.Playback the middle portion of the test tape (QZZCWAT).
3.Adjust **VR802**, Deck B, and **VR801**, Deck A, **(see Fig. 12)** so that the output is within the standard value.

Normal speed

4.Shift the editing tape speed switch to "**X1**" and remove the ground from **TP4**.
5.Playback the middle portion of the test tape (QZZCWAT).
6.Adjust **VR804**, Deck B, and **VR803**, Deck A, **(see Fig. 12)** so that the output is within the standard value.

Note: The High speed adjustment must be done before the Normal speed adjustment.

Standard value: 3000 ± 15Hz(Normal), 6000 ± 30Hz(High)

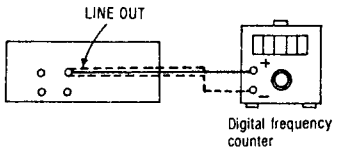


Fig. 3

PLAYBACK GAIN ADJUSTMENT ("DECK A" and "DECK B")

1.Playback the gain adjustment portion (315 Hz, 0 dB) of the test tape (QZZCFM).
2.Adjust Deck B=**VR3**(L-CH) [[**VR4**(R-CH)]] and Deck A=**VR5**(L-CH) [[**VR6**(R-CH)]] so that the output is within the standard value.

Standard value: 0.4V±0.5dB

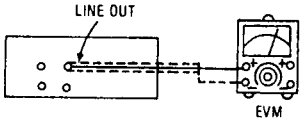


Fig. 4

PLAYBACK FREQUENCY RESPONSE ("DECK A" and "DECK B")

1.Playback the frequency response portion (315 Hz, 12.5 kHz ~ 63 Hz, -20 dB) of the test tape (QZZCFM).
2.Assure that the frequency response is within the range shown in **Fig. 6** for both L-CH and R-CH.

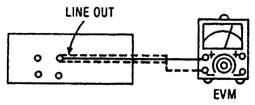


Fig. 5

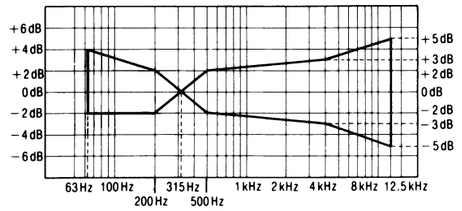


Fig. 6

ERASE CURRENT ADJUSTMENT ("DECK A")

1.Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2.Adjust **VR301** so that the output between **TP1** and GND is within the standard value.

Standard value: 170±5mA(Metal), (170±5mV)

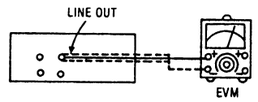


Fig. 7

OVERALL FREQUENCY RESPONSE ("DECK A")

1.Insert the Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
2.Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
3.Attenuate the signal by 20 dB and adjust the frequency from 50 Hz ~ 10 kHz.
4.Record the frequency sweep.
5.Playback the recorded signal and assure that it is within the range shown in **Fig. 9** in comparison to the reference frequency (1 kHz).
6.If it is not within the standard range, adjust **VR1** (L-CH) and **VR2** (R-CH) so that the frequency level is within the standard range.
- Level up in high frequency range.....Increase the bias current.
- Level down in high frequency range...Decrease the bias current.

7.Repeat steps 2 ~ 6 above using the CrO_2 tape(QZZCRX) and the Metal tape(QZZCRZ) increasing the frequency range to 12.5 kHz (50 Hz~12.5 kHz).
8.Assure that the level is within the range shown in **Fig. 10**.

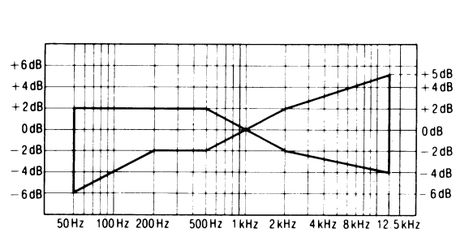


Fig. 9

Fig. 10

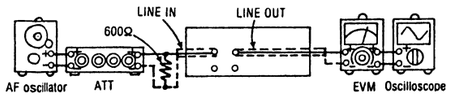


Fig. 8

OVERALL GAIN ADJUSTMENT ("DECK A")

1.Insert the normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
2.Apply a reference input signal (1 kHz, -24 dB). Attenuare the output so that its level becomes 0.4V.
3.Record this input signal.
4.Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5.If it is not within the standard, adjust **VR7** (L-CH) and **VR8** (R-CH).
6.Repeat the 2 ~ 5 above until the output is within the standard value.

Standard value: 0.4V ± 0.5dB

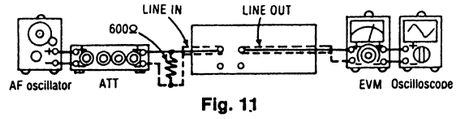


Fig. 11

- **Adjustment point**

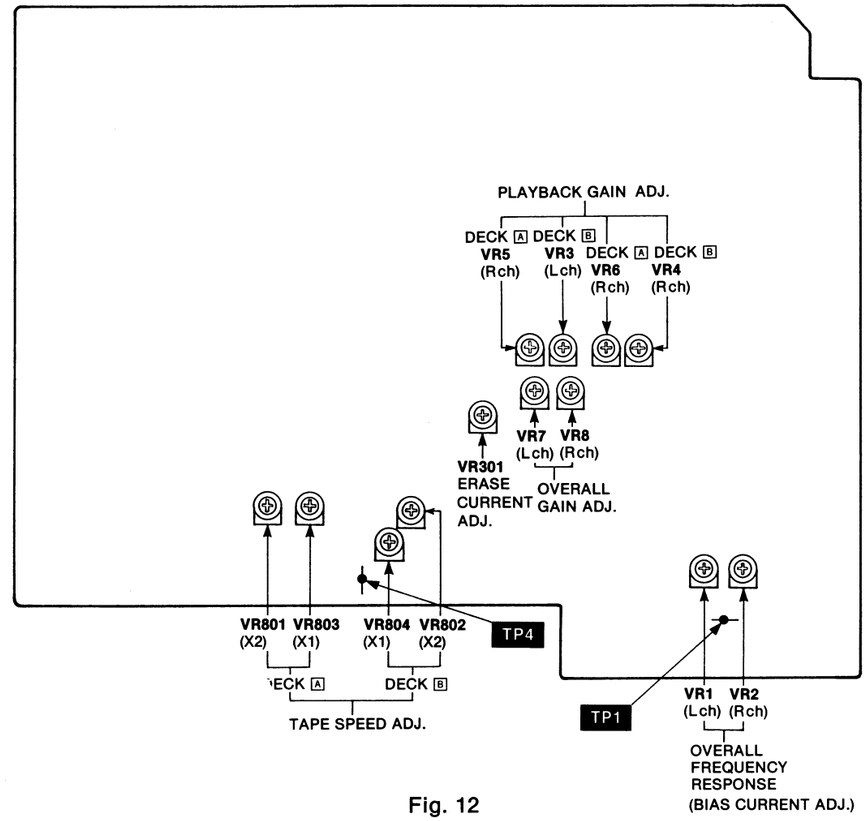
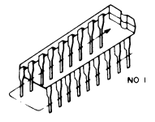
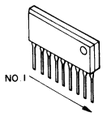


Fig. 12

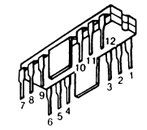
■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



AN6888	18 Pin
TEA0665	28 Pin
AN7016K	30 Pin
LC6554H-3355	64 Pin

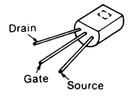


M5218L	8 Pin
MN6634	9 Pin

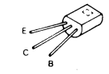


LB1648	12 Pin

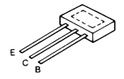
2SJ40CD
2SK381



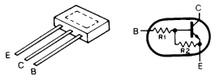
2SB621A-R
2SD592ANCQ



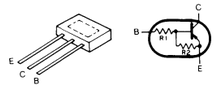
2SA1309AQS
2SC3311-Q
2SD1330R



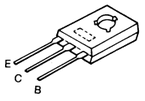
UN4211, UN4214



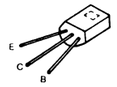
UN4111



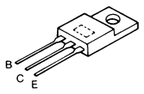
2SA885Q
2SC1846-R

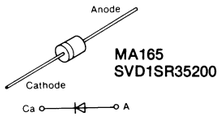


2SA1253-S

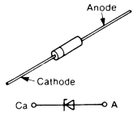


2SD1265-O
2SB941-P

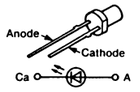




MA165
SVD1SR35200

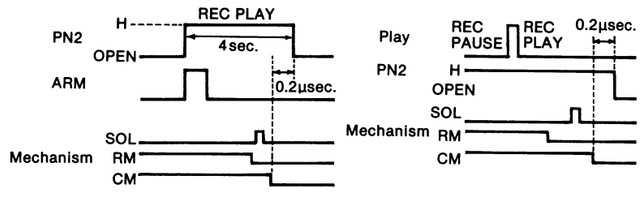


MA4043-M
MA4068M
MA4075M
MA4091-M



LN363GCPP (GREEN)
LN463YCPPU (YEL)
LN863RCPP (RED)

■ MICROCOMPUTER TERMINAL FUNCTION AND WAVEFORM (IC901: LC6554H-3355)

<table>
<tr><th>Terminal</th><th>Symbol</th><th>Function/operation</th></tr>
<tr><td>1</td><td>PN0</td><td>LINE OUT output mute control
(OPEN in Line Out Mute mode)
<table>
<tr><th rowspan="2">DECK B / Editing SW
DECK A</th><th colspan="2">STOP, FF, REW
PAUSE, MS SEARCH</th><th colspan="2">PLAY</th></tr>
<tr><th>ON</th><th>OFF</th><th>ON</th><th>OFF</th></tr>
<tr><td>STOP, FF, REW, PAUSE</td><td>OPEN</td><td>OPEN</td><td>H</td><td>H</td></tr>
<tr><td>PLAY</td><td>H</td><td>H</td><td></td><td></td></tr>
<tr><td>REC PAUSE</td><td>OPEN</td><td>H</td><td>H</td><td>H</td></tr>
<tr><td>REC PLAY</td><td>OPEN</td><td>H</td><td>H</td><td>H</td></tr>
</table></td></tr>
<tr><td>2</td><td>PN1</td><td>Meter mute control
• When Auto Rec Mute switch (S713) is pressed in REC PAUSE mode, “L” → “OPEN”, and “OPEN” → “L” when released.
• “OPEN” during Auto Rec Mute in REC PLAY mode.
• “OPEN” in STOP mode, and “L” in PLAY mode.</td></tr>
<tr><td>3</td><td>PN2</td><td>Rec amp mute control
• “L” when not in Auto Rec Mute mode.
• “OPEN” in other mode.
(Timing Chart)
 
</td></tr>
<tr><td>4</td><td>PN3</td><td>Dolby IC
Encode/decode selection.
• “H” in non-editing REC mode.
• “L” in other mode.</td></tr>
<tr><td>5</td><td>P00</td><td>Playback time constant selection
• “H” in normal tape play mode.
• “L” in CrO_2, metal tape play mode.
• Previous condition is maintained in other mode.
<table>
<tr><th>DECK B</th><th>DECK A</th><th>DECK B
DECK A
STOP, FF
REW, PAUSE</th><th>DECK B
PLAY</th><th>DECK A
PLAY</th><th>Edit mode
DECK B
PLAY</th><th>Edit mode
DECK A
PLAY</th><th>Edit mode
DECK A
REC PLAY or
REC PAUSE</th><th>Edit mode
DECK B PLAY</th><th>Edit mode
DECK A
REC, PLAY or
REC, PAUSE</th></tr>
<tr><td>NORMAL</td><td>NORMAL</td><td>—</td><td>H</td><td>H</td><td>H</td><td>H</td><td>—</td><td colspan="2">H</td></tr>
<tr><td>NORMAL</td><td>CrO_2 METAL</td><td>—</td><td>H</td><td>OPEN</td><td>H</td><td>OPEN</td><td>—</td><td colspan="2">H</td></tr>
<tr><td>CrO_2 METAL</td><td>NORMAL</td><td>—</td><td>OPEN</td><td>H</td><td>OPEN</td><td>H</td><td>—</td><td colspan="2">OPEN</td></tr>
<tr><td>CrO_2 METAL</td><td>CrO_2 METAL</td><td>—</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>OPEN</td><td>—</td><td colspan="2">OPEN</td></tr>
</table></td></tr>
<tr><td>6</td><td>P01</td><td>Playback amp input selection
• “H” in DECK A playback mode.
• “L” in other mode.</td></tr>
</table>

Terminal	Symbol	Function/operation
7	P02	X2 display output • “H” with X2 editing display LED ON.
8	P03	NR OFF selector • “H” in NR selector “OFF” mode.
9	PP0	Dolby C selector • “H” in Dolby C selector mode.
10	PA0	DECK A Auto tape selector input • “L” with normal tape loaded.
11	PA1	DECK B Auto tape selector input • “L” with normal tape loaded.
12	PA2	DECK B Leader tape detection • Usually “H”.
13	PA3	DECK A Leader tape detection • “L” in leader tape play mode.
14	PB0	DECK B Reel base rotation detection Pulse is input when reel base rotates.
15	PB1	DECK A Reel base rotation detection Pulse is input when reel base rotates.
16	PB2	Music selector pulse input • “L” when music selector is operated with signal applied, and “H” without signal.
17	PB3	Power supply OFF detection • When power supply ON, pulse-form waveform as shown below is input.
18	PC0	Cue/review mute control • “L” in cue/review mode.
19	PC1	Dolby B display output • “L” with Dolby B display LED ON.
20	PC2	Dolby C display output • “L” with Dolby C display LED ON.
21	PC3	Editing display output • “L” with editing display LED ON.

Terminal	Symbol	Function/operation
22	PD0	⇔ (SERIES) display output • "L" with ⇔ (SERIES) display LED ON.
23	PD1	⇄ (ONE WAY) display output • "L" with ⇄ (ONE WAY) display LED ON.
24	PD2	⇄ (REVERSE) display output • "L" with ⇄ (REVERSE) display LED ON.
25	PD3	↻ (REPEAT) display output • "L" with ↻ (REPEAT) display LED ON.
26	PE0	Remote control serial signal input • Terminal to input KEY-IN signal from Amp, Receiver, Remote Control.
27	PE1	DECK [B] Playback display output • "L" in play mode • "H" → "L" → "H" ..... repeated in Cue/Review mode.
28	PE2	DECK [B] Direction display output • "H" with FORWARD LED ON. • "L" with REVERSE LED ON.
29	PE3	DECK [B] Remote control display output • "L" with power supply ON. • "H" with initial signal from remote control received. • "H" or "L" with DECK [A] or DECK [B] of remote control commander selected.
30	TEST	GND
31	V_{SS}	GND
32	OSC1	Clock oscillation terminal • Oscillation terminal, but microcomputer does not operate with probe connected.
33	OSC2	Clock oscillation terminal
34	$\overline{RES}$	Reset terminal • Microcomputer reset ..... usually "H"
35	PF0	Tape speed control • "L" during X2 tape travel.
36	PF1	DECK [A] REVERSE and REC INHIBIT INPUT • "L" when rec possible on reverse rotation side. • "H" when rec impossible. (Detected by tape erase preventing lug)
37	PF2	Direct operation inhibit output • "H" in REC PAUSE and REC PLAY mode.

Terminal	Symbol	Function/operation
38	PF3	DECK [A] Bias oscillation control • "L" in REC PLAY mode.
39	PG0	DECK [A] Direction display output • "H" with FORWARD LED ON. • "L" with REVERSE LED ON.
40	PG1	DECK [A] REC display output • "L" in REC PAUSE and REC PLAY mode.
41	PG2	DECK [A] Playback display output • "L" in PLAYBACK mode. • "H" → "L" → "H" → "L" ..... repeated in PAUSE mode. • "H" → "L" → "H" → "L" ..... quickly repeated in Cue/Review mode.
42	PG3	DECK [A] Remote Control display output • "L" in Power ON mode. • "H" when DECK [B] is selected by DECK [A]/DECK [B] of remote control commander.
43	PI0	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] FOR PLAY (S707), STOP (S709) and DECK [B] FOR PLAY (S708), STOP (S710).)
44	PI1	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] REV, PLAY (S705) and SYNCHRO START (S712).)
45	PI2	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] FF (S703), PAUSE (S711), REC (S715) and DECK [B] FF (S704).)
46	PI3	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] REW (S701), auto Rec Mute (S713) and DECK [B] REW (S702).)
47	PJ0	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] FOR REC INHIBIT and X1/X2 SELECTOR SW (S731).)
48	PJ1	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK [A] PLAY SW (Head base plate position detection) and DECK [B] PLAY SW.)

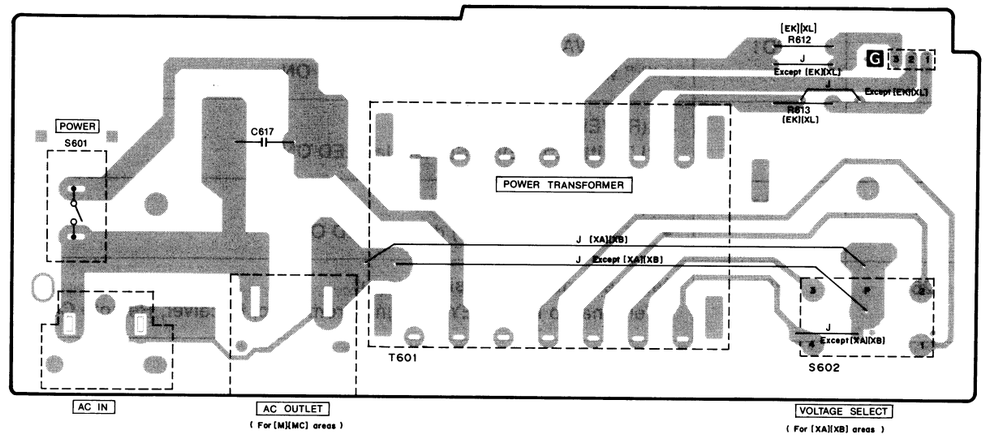
Terminal	Symbol	Function/operation
49	PJ2	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to DECK A/B DIRECTION SW (MECHANISM SW), EDITING (S732) and TIMER SW (PLAY).)
50	PJ3	Input switch read • Each switch is read according to scanning of PK0~3. (Connected to TIMER SW (REC).)
51	VP	NO CONNECTION
52	PK0	Input SW scan • PK0 • PK1 • PK2 • PK3 0.3msec.
53	PK1	
54	PK2	
55	PK3	
56	PL0	DECK A Reel motor control (FOR) • "H" in FOR PLAY and FF mode.
57	PL1	DECK A Reel motor control (REV) • "H" in REV PLAY and REW mode.
58	PL2	DECK A Plunger control • "H" for a short time when mechanism mode is shifted.
59	PL3	DECK A Capstan motor control • "H" in PLAY and REC PLAY mode.
60	PM0	DECK B Reel motor control (FOR) • "H" in FOR PLAY and FF mode.
61	PM1	DECK B Reel motor control (REV) • "H" in REV PLAY and REW mode.
62	PM2	DECK B Plunger control • "H" for a short time when mechanism mode is shifted.
63	PM3	DECK B Capstan motor control • "H" in PLAY mode.
64	V_{DD}	Operates with +4.5V to +5.5V.

1 2 3 4 5

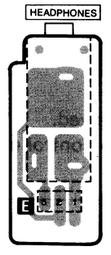
A B C D E F

■ PRINTED CIRCUIT BOARDS

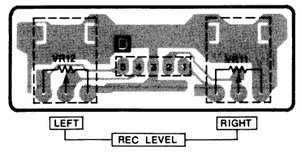
II POWER SUPPLY P.C.B.



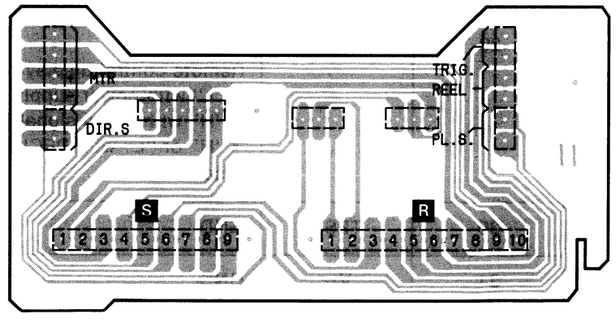
VIII HEADPHONES P.C.B.



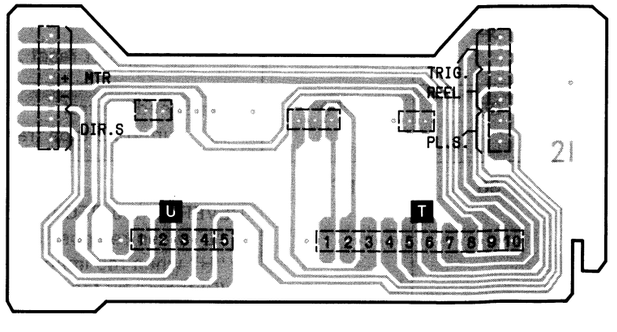
IV REC LEVEL P.C.B.



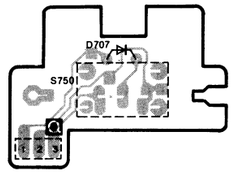
XIV MECHANISM (1) P.C.B. (DECK A)



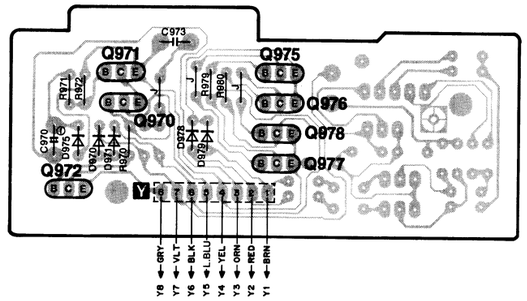
XV MECHANISM (2) P.C.B. (DECK B)



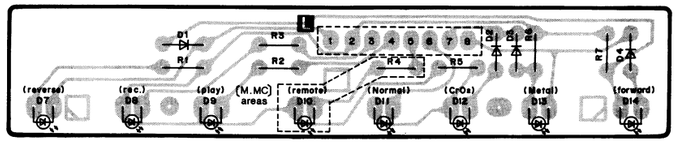
VI TIMER P.C.B.



VII SUB P.C.B.

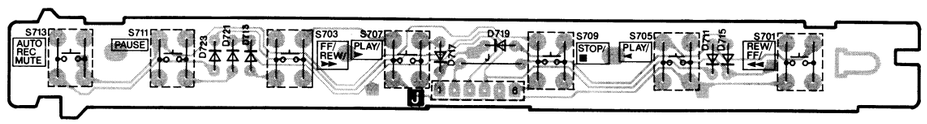


XII LED (1) P.C.B. (DECK A)

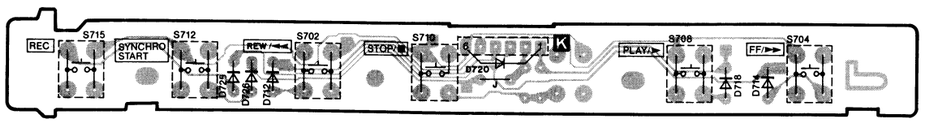


XIII LED (2) P.C.B. (DECK B)

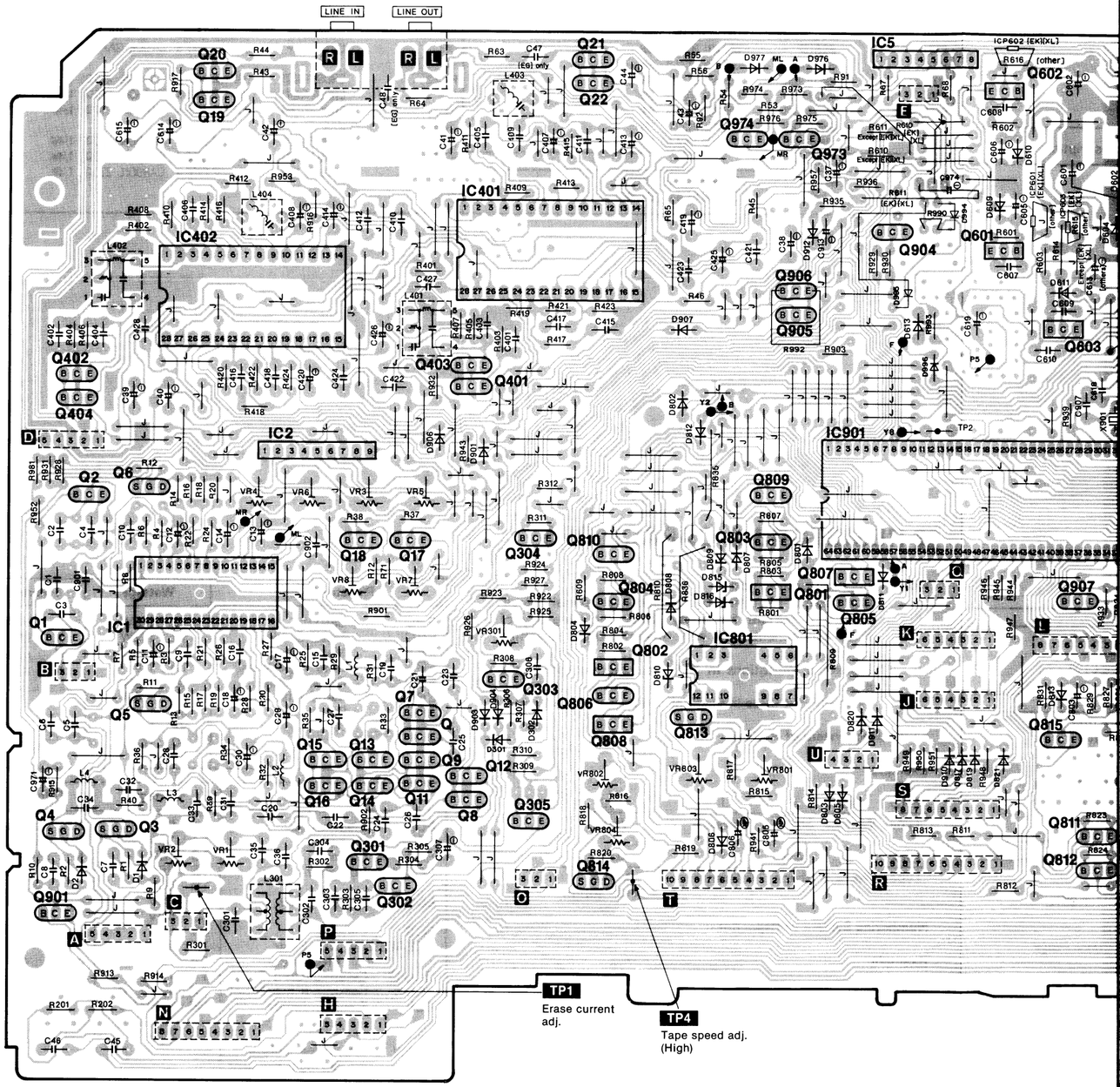
X OPERATION SW (1) P.C.B.



XI OPERATION SW (2) P.C.B.



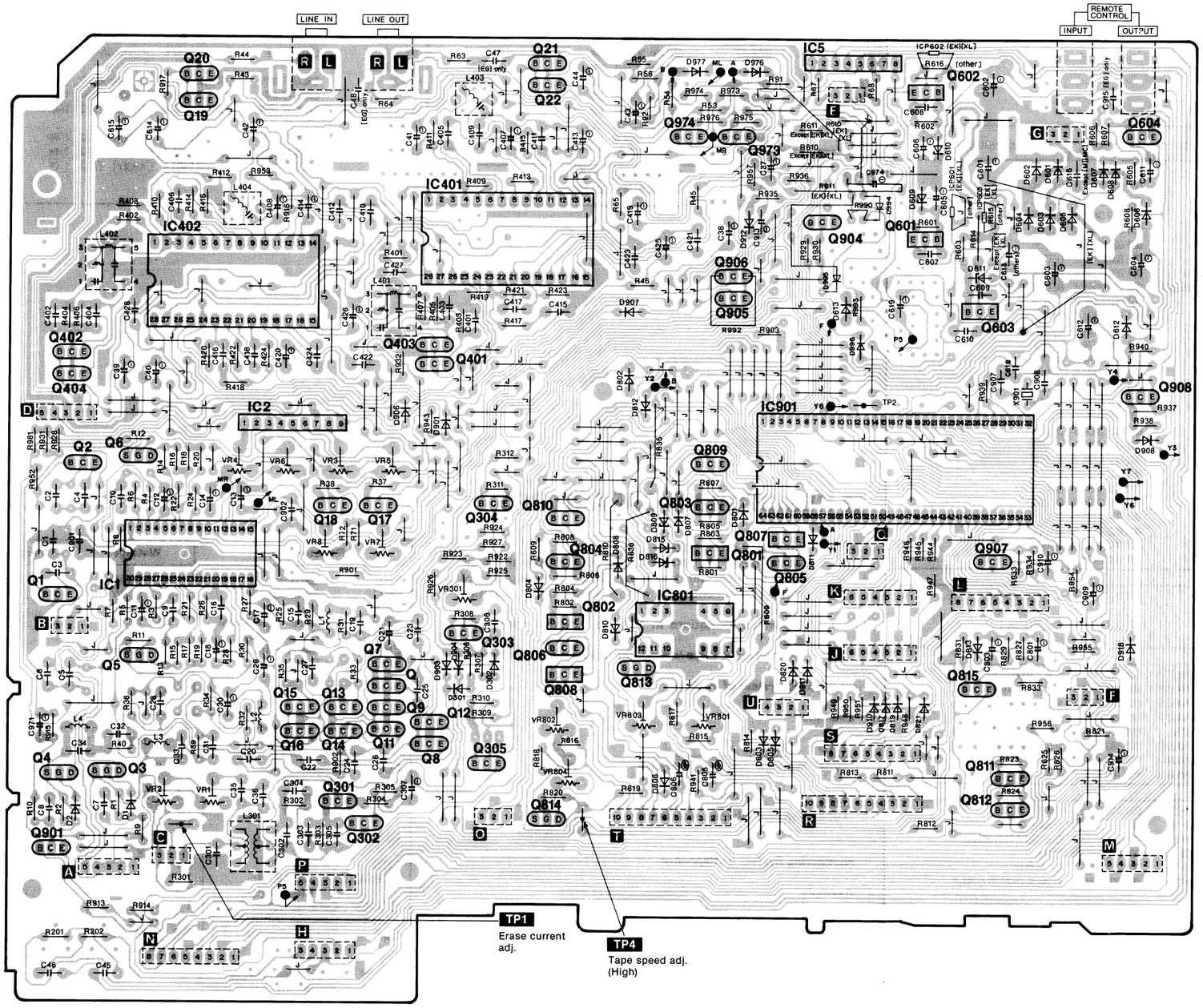
I MAIN P.C.B.



※ **Caution**!
The microcomputer for system control of this unit (**Ref No. IC901**) has been changed during production.

(OLD) **(NEW)**
LC6554H-3355 ➡ **LC6554H-3426**
New type is supplied as the replacement part.

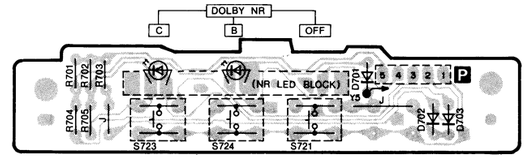
I MAIN P.C.B.



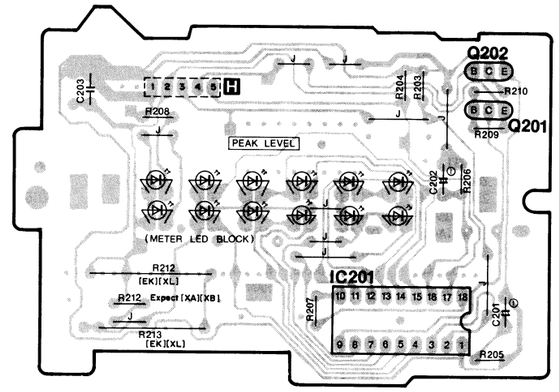
※ **Caution**!
The microcomputer for system control of this unit (**Ref No. IC901**) has been changed during production.

(OLD) (NEW)
LC6554H-3355 ➡ **LC6554H-3426**
New type is supplied as the replacement part.

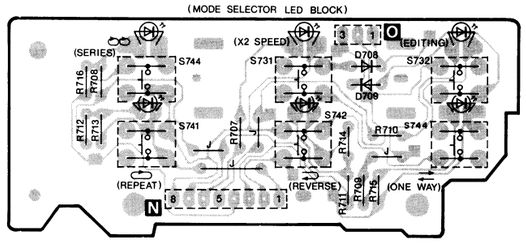
IX NOISE REDUCTION P.C.B.



V PEAK LEVEL P.C.B.



III MODE SELECTOR P.C.B.



■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS			
IC1	AN7016K	001 061 4629 4	I.C.
IC2	MN6634	001 061 0884 7	I.C., NR SELECTOR
IC5	M5218L	001 060 3798 7	I.C., OPERATION AMP.
IC201	AN6888	001 060 7693 9	I.C.
IC401, IC402	TEA0665	001 060 7933 2	I.C., DOLBY B, C NR
IC801	LB1648	001 061 5517 7	INTEGRATED CIRCUIT
IC901	LC6554H-3426	001 061 5567 7	INTEGRATED CIRCUIT
TRANSISTORS			
Q1, Q2	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q3, Q4	2SJ40CD	001 030 2807 5	TRANSISTOR
Q5, Q6	2SK381	001 030 4439 1	TRANSISTOR
Q7, Q8	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q9, Q10	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q11, Q12	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q13, Q14	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q15, Q16	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q17, Q18	2SD1450R	001 030 4366 1	TRANSISTOR
Q19, Q20	2SA1253-S	001 030 4843 3	TRANSISTOR
Q21, Q22	2SD1450R	001 030 4366 1	TRANSISTOR
Q201	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q202	UN4211	001 030 4033 9	TRANSISTOR
Q301, Q302	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q303	2SD592NC-R	001 030 1759 0	TRANSISTOR
Q304	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q305	2SB621A-R	001 030 0668 6	TRANSISTOR
Q401, Q402	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q403, Q404	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q601	2SD1265-0	001 030 2652 6	TRANSISTOR
Q602	SMX51	016 600 0216 7	SPACER
Q602	2SB941-P	001 030 2696 4	TRANSISTOR
Q603	SMX51	016 600 0216 7	SPACER
Q603	2SD1265-0	001 030 2652 6	TRANSISTOR
Q604	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q801, Q802	2SA885Q	001 030 0457 5	TRANSISTOR
Q803, Q804	2SB621A-R	001 030 0668 6	TRANSISTOR
Q805, Q806	UN4211	001 030 4033 9	TRANSISTOR
Q807, Q808	2SC1846-R	001 030 1134 7	TRANSISTOR
Q809, Q810	UN4214	001 030 4835 3	TRANSISTOR
Q811, Q812	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q813, Q814	2SK381	001 030 4439 1	TRANSISTOR
Q815	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q901	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q904, Q905	UN4211	001 030 4033 9	TRANSISTOR
Q906	UN4211	001 030 4033 9	TRANSISTOR
Q907	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q908	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q970, Q971	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q972	UN4111	001 030 2899 5	TRANSISTOR
Q973, Q974	2SC3311A-Q	001 030 5279 5	TRANSISTOR
Q975, Q976	2SA1309AQS	001 030 4846 0	TRANSISTOR
Q977, Q978	UN4211	001 030 4033 9	TRANSISTOR
DIODES			
D1, D2	MA165	001 032 0494 0	DIODE
D301, D302	MA165	001 032 0494 0	DIODE
D601, D602 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D603, D604 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D605, D606 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D607, D608	MA165	001 032 0494 0	DIODE
D609, D610	MA4091-M	001 032 7213 5	DIODE
D611	MA4068M	001 032 4954 7	DIODE
D612, D613 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D701, D702	MA165	001 032 0494 0	DIODE
D703, D707	MA165	001 032 0494 0	DIODE
D708, D709	MA165	001 032 0494 0	DIODE
D711, D712	MA165	001 032 0494 0	DIODE
D713, D714	MA165	001 032 0494 0	DIODE
D715, D717	MA165	001 032 0494 0	DIODE
D718, D719	MA165	001 032 0494 0	DIODE
D720, D721	MA165	001 032 0494 0	DIODE
D723, D725	MA165	001 032 0494 0	DIODE
D726	MA165	001 032 0494 0	DIODE
D755	LN121409P	001 033 0360 8	DIODE, GAASP
D801, D802 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D803, D804	MA165	001 032 0494 0	DIODE
D805, D806	MA165	001 032 0494 0	DIODE
D807, D808	MA165	001 032 0494 0	DIODE
D809, D810	MA4043M	001 032 5574 1	DIODE
D811, D812	MA165	001 032 0494 0	DIODE
D813	MA165	001 032 0494 0	DIODE
D815, D816	MA4075M	001 032 7212 6	DIODE
D817, D819	MA165	001 032 0494 0	DIODE
D820, D821	MA165	001 032 0494 0	DIODE
D901, D903	MA165	001 032 0494 0	DIODE
D904, D906	MA165	001 032 0494 0	DIODE
D907, D908	MA165	001 032 0494 0	DIODE
D910, D911	MA165	001 032 0494 0	DIODE
D912, D918	MA165	001 032 0494 0	DIODE
D970, D971	MA165	001 032 0494 0	DIODE
D975, D976	MA165	001 032 0494 0	DIODE
D977, D978	MA165	001 032 0494 0	DIODE
D979, D994	MA165	001 032 0494 0	DIODE
D995, D996	MA165	001 032 0494 0	DIODE
I.C.PROTECTORS			
ICP603 (EK, XL)	SRUN10	001 061 3071 4	IC PROTECTOR
ICP601, ICP602 (EK, XL)	SRUN15	001 061 2834 9	I.C.PROTECTOR
VARIABLE RESISTORS			
VR1, VR2	EVND4AA00B15	001 180 2243 2	V.R., 100KΩ(B)
VR3, VR4	EVND4AA00B24	001 180 2244 1	V.R., 20KΩ(B)
VR5, VR6	EVND4AA00B24	001 180 2244 1	V.R., 20KΩ(B)
VR7, VR8	EVND4AA00B14	001 180 2242 3	V.R., 10KΩ(B)
VR11, VR12	SVR1F20A54	001 174 9177 3	VARIABLE RESISTOR
VR301	EVND4AA00B53	001 180 2319 9	V.R., 5KΩ(B)
VR801, VR802	EVN4LCA00B14	001 180 3116 4	V.R., 10KΩ(B)
VR803, VR804	EVND4AA00B14	001 180 2242 3	V.R., 10KΩ(B)
COILS AND TRANSFORMERS			
L1, L2	SLQX272-1YT	001 211 0649 2	CHOKE COIL
L3, L4	SLQX303-1K	001 211 1756 6	CHOKE COIL
L301	SL09C19-K	001 211 2472 1	OSCILLATOR COIL
L401, L402	QLB40048	001 210 7275 9	COIL
L403, L404	SLM1B8-K	001 211 2731 1	MPX COIL
T601 (M, MC)	SLT5V10-S	001 202 9088 8	POWER TRANSFORMER
T601 ⚠ (E, EG, EH)	SLT5V11-S	001 202 9027 1	POWER TRANSFORMER
T601 ⚠ (EK, XL)	SLT5V12-S	001 202 9028 0	POWER TRANSFORMER
T601 ⚠ (XA, XB)	SLT5V13-S	001 202 9041 3	POWER TRANSFORMER
OSCILLATORS			
X901	SVFCSA300MG	001 241 1296 5	CERAMIC FILTER
SWITCHES			
S601 ⚠	ESB8249V	003 435 5877 0	POWER SWITCH
S602 ⚠ (XA, XB)	SSR187-1	003 430 2201 5	SW, VOLTAGE SELECT
S701, S702	EVQQAC05G	003 439 2072 1	SW
S703, S704	EVQQAC05G	003 439 2072 1	SW
S705, S707	EVQQAC05G	003 439 2072 1	SW
S708, S709	EVQQAC05G	003 439 2072 1	SW
S710, S711	EVQQAC05G	003 439 2072 1	SW
S712, S713	EVQQAC05G	003 439 2072 1	SW
S715, S721	EVQQAC05G	003 439 2072 1	SW
S723, S724	EVQQAC05G	003 439 2072 1	SW
S731, S732	EVQQAC05G	003 439 2072 1	SW
S741, S742	EVQQAC05G	003 439 2072 1	SW
S743, S744	EVQQAC05G	003 439 2072 1	SW
S750	SSS157	003 431 3020 9	SW
S901	SMQA1059	003 435 6132 0	SW
S902, S903	SMQA1058	003 435 6131 1	SW, PACK
S904	SMQA1040	003 434 1025 7	SW
S905, S906	SMQA1023	003 434 1024 8	SW
S907	SMQA1059	003 435 6132 0	SW
S908	SMQA1023	003 434 1024 8	SW
OTHERS (LED PCB DECK A, B)			
D1, D2	MA165	001 032 0494 0	DIODE
D3, D4	MA165	001 032 0494 0	DIODE
D7	LN363GCPP	001 032 7262 6	DIODE, GAASP
D8	LN863RCPP	001 032 7263 5	L.E.D
D9	LN363GCPP	001 032 7262 6	DIODE, GAASP
D10 (M, MC)	LN363GCPP	001 032 7262 6	DIODE, GAASP
D11	LN863RCPP	001 032 7263 5	L.E.D
D12	LN363GCPP	001 032 7262 6	DIODE, GAASP
D13	LN863RCPP	001 032 7263 5	L.E.D
D14, D16	LN363GCPP	001 032 7262 6	DIODE, GAASP
D17 (M, MC)	LN363GCPP	001 032 7262 6	DIODE, GAASP
R1, R2	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R3	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R4 (M, MC)	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R5, R6	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R7, R9	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R10 (M, MC)	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
RESISTORS			
R1, R2	ERDS2T		
R3, R4	ERDS2T		
R5, R6	ERDS2T		
R7, R8	ERDS2T		
R9, R10	ERDS2T		
R11, R12	ERDS2T		
R13, R14	ERDS2T		
R15, R16	ERDS2T		
R17, R18	ERDS2T		
R19, R20	ERDS2T		
R21, R22	ERDS2T		
R23, R24	ERDS2T		
R25, R26	ERDS2T		
R27, R28	ERDS2T		
R29, R30	ERDS2T		
R31, R32	ERDS2T		
R33, R34	ERDS2T		
R35, R36	ERDS2T		
R37, R38	ERDS2T		
R39, R40	ERDS2T		
R43, R44	ERDS2T		
R45, R46	ERDS2T		
R53, R54	ERDS2T		
R55, R56	ERDS2T		
R63, R64	ERDS2T		
R65	ERDS2T		
R67, R68	ERDS2T		
R71, R72	ERDS2T		
R91, R92	ERDS2T		
R201, R202	ERDS2T		
R203, R204	ERDS2T		
R205, R206	ERDS2T		
R207	ERDS2T		
R208	ERDS2T		
R209	ERDS2T		
R210	ERDS2T		
R212 (M, MC, E)	ERX2AJ		
R213 (EH, EG, XA) (XB)	ERX1AJ		
R915	ERDS2T		
R916	ERDS2T		
R917	ERDS2T		
R922	ERDS2T		
R923	ERDS2T		
R924	ERDS2T		
R925	ERDS2T		
R926	ERDS2T		
R927, R928	ERDS2T		
R929, R930	ERDS2T		
R931	ERDS2T		
R932	ERDS2T		
R933	ERDS2T		
R934	ERDS2T		
R935, R936	ERDS2T		
R937	ERDS2T		
R938	ERDS2T		
R939, R940	ERDS2T		
R941	ERDS2T		
R943	ERDS2T		
R944, R945	ERDS2T		
R946, R947	ERDS2T		
R948, R949	ERDS2T		
R950, R951	ERDS2T		
R952	ERDS2T		
R953	ERDS2T		
R954, R955	ERDS2T		
R956	ERDS2T		
R957	ERDS2T		
R970	ERDS2T		
R971	ERDS2T		
R972	ERDS2T		
R973, R974	ERDS2T		
R975, R976	ERDS2T		
R979, R980	ERDS2T		
R981	ERDS2T		
R990	ERDS2T		
R991	ERDS2T		
R992	ERDS2T		
R993	ERDS2T		
CAPACITORS			
C1, C2	ECKD1		

■ RESISTORS & CAPACITORS

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value

ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10¹ (ohm)

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity

ECEA	50	M	330
Type	Voltage	Peculiarity	Value (33x10⁰ microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD□ L : Carbon (chip) ERO□ K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W S2 : 1/4W S1 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J : ±5% F : ±1% G : ±2% K : ±10%

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polyproylene ECG : Ceramic ECEA□□□N: Non Polar Electrolytic QCU□ : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor EECW : Liquid electrolyte double layer capcitor	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1H : 50V 1V : 35V 50 : 50V 05 : 50V 2H : 500V 2A : 100V 1 : 100V KC: 400V AC KC: 125VAC (UL) 1J : 63V	C : ±0.25pF J : ±5% K : ±10% Z : +80% −20% P : +100% −0% M : ±20% D : ±0.5pF G : ±2%

Ref. No.	Part No.	Part Code	Description
S705, S707	EVQQAC05G	003 439 2072 1	SW
S708, S709	EVQQAC05G	003 439 2072 1	SW
S710, S711	EVQQAC05G	003 439 2072 1	SW
S712, S713	EVQQAC05G	003 439 2072 1	SW
S715, S721	EVQQAC05G	003 439 2072 1	SW
S723, S724	EVQQAC05G	003 439 2072 1	SW
S731, S732	EVQQAC05G	003 439 2072 1	SW
S741, S742	EVQQAC05G	003 439 2072 1	SW
S743, S744	EVQQAC05G	003 439 2072 1	SW
S750	SSS157	003 431 3020 9	SW
S901	SMQA1059	003 435 6132 0	SW
S902, S903	SMQA1058	003 435 6131 1	SW, PACK
S904	SMQA1040	003 434 1025 7	SW
S905, S906	SMQA1023	003 434 1024 8	SW
S907	SMQA1059	003 435 6132 0	SW
S908	SMQA1023	003 434 1024 8	SW
OTHERS (LED PCB DECK A, B)			
D1, D2	MA165	001 032 0494 0	DIODE
D3, D4	MA165	001 032 0494 0	DIODE
D7	LN363GCPP	001 032 7262 6	DIODE, GAASP
D8	LN863RCPP	001 032 7263 5	L.E.D
D9	LN363GCPP	001 032 7262 6	DIODE, GAASP
D10 (M, MC)	LN363GCPP	001 032 7262 6	DIODE, GAASP
D11	LN863RCPP	001 032 7263 5	L.E.D
D12	LN363GCPP	001 032 7262 6	DIODE, GAASP
D13	LN863RCPP	001 032 7263 5	L.E.D
D14, D16	LN363GCPP	001 032 7262 6	DIODE, GAASP
D17 (M, MC)	LN363GCPP	001 032 7262 6	DIODE, GAASP
R1, R2	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R3	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R4 (M, MC)	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R5, R6	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R7, R9	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W
R10 (M, MC)	ERDS2TJ271	001 152 2435 4	CARBON, 270Ω, 1/4W

■ RESISTORS & CAPACITORS

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Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10¹ (ohm)

Numbering System of Capacitor

Example

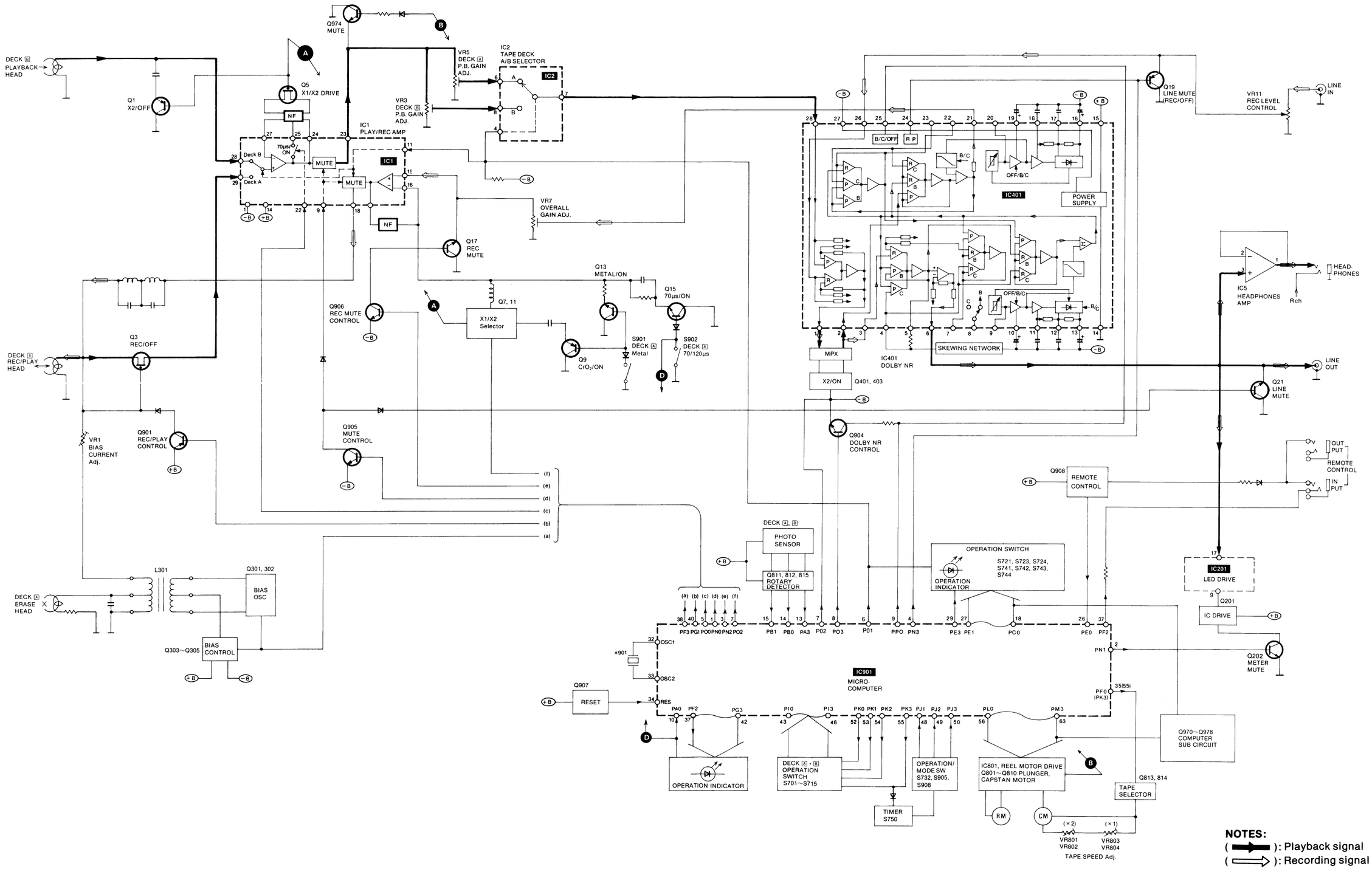
ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M		330
Type	Voltage	Peculiarity		Value (33x10° microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD□ L : Carbon (chip) ERO□ K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W S2 : 1/4W S1 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J : ±5% F : ±1% G : ±2% K : ±10%

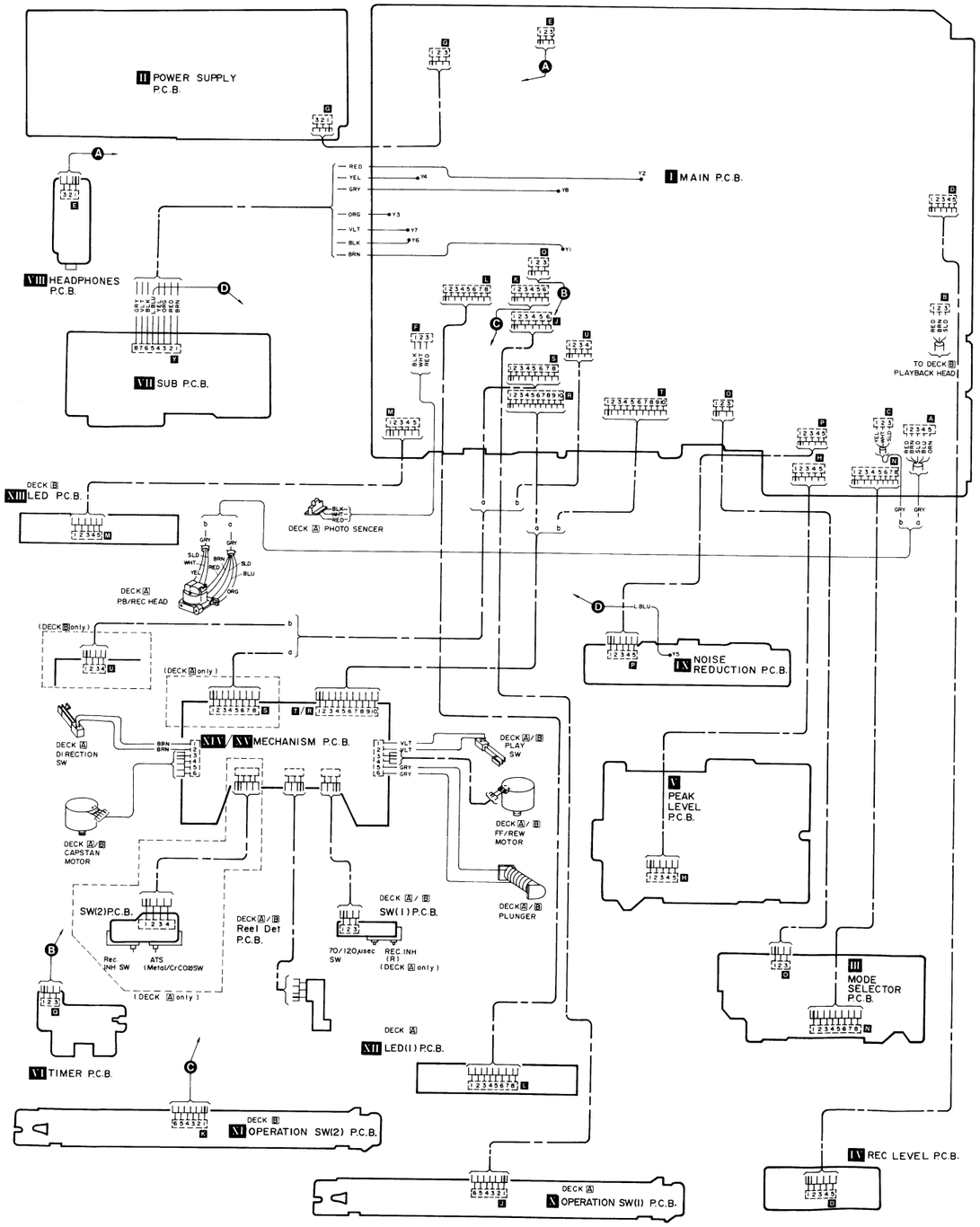
Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polyproylene ECG : Ceramic ECEA□□□N: Non Polar Electrolytic QCU□ : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor EECW : Liquid electrolyte double layer capcitor	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1H : 50V 1V : 35V 50 : 50V 05 : 50V 2H : 500V 2A : 100V 1 : 100V KC : 400V AC KC : 125VAC (UL) 1J : 63V	C : ±0.25pF J : ±5% K : ±10% Z : +80% −20% P : +100% −0% M : ±20% D : ±0.5pF G : ±2%

Ref. No.	Part No.	Part Code
RESISTORS		
R1, R2	ERDS2TJ101	001 152 2421 0
R3, R4	ERDS2TJ101	001 152 2421 0
R5, R6	ERDS2TJ101	001 152 2421 0
R7, R8	ERDS2TJ820	001 152 2453 2
R9, R10	ERDS2TJ225	001 152 3149 3
R11, R12	ERDS2TJ225	001 152 3149 3
R13, R14	ERDS2TJ332	001 152 2357 1
R15, R16	ERDS2TJ272	001 152 2354 4
R17, R18	ERDS2TJ102	001 152 2346 4
R19, R20	ERDS2TJ332	001 152 2357 1
R21, R22	ERDS2TJ184	001 152 2588 8
R23, R24	ERDS2TJ272	001 152 2354 4
R25, R26	ERDS2TJ223	001 152 2432 7
R27, R28	ERDS2TJ472	001 152 2362 4
R29, R30	ERDS2TJ102	001 152 2346 4
R31, R32	ERDS2TJ330	001 152 2355 3
R33, R34	ERDS2TJ472	001 152 2362 4
R35, R36	ERDS2TJ222	001 152 2353 5
R37, R38	ERDS2TJ472	001 152 2362 4
R39, R40	ERDS2TJ103	001 152 2347 3
R43, R44	ERDS2TJ223	001 152 2432 7
R45, R46	ERDS2TJ103	001 152 2347 3
R53, R54	ERDS2TJ152	001 152 2350 8
R55, R56	ERDS2TJ104	001 152 2348 2
R63, R64	ERDS2TJ182	001 152 2352 6
R65	ERDS2TJ272	001 152 2354 4
R67, R68	ERDS2TJ390	001 152 2359 9
R71, R72	ERDS2TJ332	001 152 2357 1
R91, R92	ERDS2TJ472	001 152 2362 4
R201, R202	ERDS2TJ363	001 152 2594 0
R203, R204	ERDS2TJ472	001 152 2362 4
R205, R206	ERDS2TJ104	001 152 2348 2
R207	ERDS2TJ562	001 152 2445 2
R208	ERDS2TJ331	001 152 2356 2
R209	ERDS2TJ104	001 152 2348 2
R210	ERDS2TJ103	001 152 2347 3
R212 (M, MC, E) (EH, EG, XA) (XB)	ERX2ANJ180	001 151 0133 8
R213	ERX1ANJ8R2	001 151 0447 3
R915	ERDS2TJ473	001 152 2363 3
R916	ERDS2TJ223	001 152 2432 7
R917	ERDS2TJ103	001 152 2347 3
R922	ERDS2TJ472	001 152 2362 4
R923	ERDS2TJ103	001 152 2347 3
R924	ERDS2TJ223	001 152 2432 7
R925	ERDS2TJ272	001 152 2354 4
R926	ERDS2TJ332	001 152 2357 1
R927, R928	ERDS2TJ103	001 152 2347 3
R929, R930	ERDS2TJ223	001 152 2432 7
R931	ERDS2TJ222	001 152 2353 5
R932	ERDS2TJ272	001 152 2354 4
R933	ERDS2TJ103	001 152 2347 3
R934	ERDS2TJ471	001 152 2361 5
R935, R936	ERDS2TJ122	001 152 2423 8
R937	ERDS2TJ223	001 152 2432 7
R938	ERDS2TJ103	001 152 2347 3
R939, R940	ERDS2TJ223	001 152 2432 7
R941	ERDS2TJ223	001 152 2432 7
R943	ERDS2TJ104	001 152 2348 2
R944, R945	ERDS2TJ473	001 152 2363 3
R946, R947	ERDS2TJ473	001 152 2363 3
R948, R949	ERDS2TJ473	001 152 2363 3
R950, R951	ERDS2TJ473	001 152 2363 3
R952	ERDS2TJ103	001 152 2347 3
R953	ERDS2TJ222	001 152 2353 5
R954, R955	ERDS2TJ223	001 152 2432 7
R956	ERDS2TJ223	001 152 2432 7
R957	ERDS2TJ563	001 152 2446 1
R970	ERDS2TJ103	001 152 2347 3
R971	ERDS2TJ272	001 152 2354 4
R972	ERDS2TJ223	001 152 2432 7
R973, R974	ERDS2TJ390	001 152 2359 9
R975, R976	ERDS2TJ103	001 152 2347 3
R979, R980	ERDS2TJ223	001 152 2432 7
R981	ERDS2TJ331	001 152 2356 2
R990	ERDS2TJ223	001 152 2432 7
R991	ERDS2TJ103	001 152 2347 3
R992	ERDS2TJ272	001 152 2354 4
R993	ERDS2TJ101	001 152 2421 0
CAPACITORS		
C1, C2	ECKD1H331KB	001 103 1523 4
C3, C4	ECKD1H271KB	001 103 1515 4
C5, C6	ECKD1H681K	001 103 1580 5
C7, C8 ⚠	ECKD1H122KB	001 103 1459 5
C9, C10	ECQB1H123JZ	001 106 3239 2
C11, C12	ECEA0JU101	001 120 2829 8
C13, C14	ECEA1EK4R7	001 120 0294 5
C15, C16	ECCD1H181K	001 103 0466 0
C17, C18	ECEA1HKR47	001 120 0338 0
C19, C20	ECQB1H272JZ	001 106 3456 5
C21, C22	ECQB1H223JZ	
C23, C24	ECQB1H123JZ	001 106 3239 2
C25, C26	ECQB1H333JZ	001 106 4846 1
C27, C28	ECQB1H392JZ	001 106 3406 5
C29, C30	ECEA1HK010	001 120 0341 5
C31, C32	ECKD1H561KB	001 103 1576 1
C33, C34	ECKD2H121KB	001 103 1635 7
C35, C36	ECCD1H101K	001 103 0341 2
C37, C38	ECEA1CKS100	001 120 2600 7
C39, C40	ECEA1HK010	001 120 0341 5
C41, C42	ECEA1CKS100	001 120 2600 7
C43, C44	ECEA1CKS100	001 120 2600 7
C45, C46	ECFTD104KXL	001 108 0793 3
C47, C48 (EG)	ECKD1H331KB	001 103 1523 4
C201, C202	ECEA1HK2R2B	001 120 0346 0
C203	ECKD1H103PF	001 103 1449 7
C301	ECQP1183JZ	001 106 1083 2
C302	ECKD1H392KB	001 103 1547 6
C303	ECFR1E682KAY	001 108 1101 7
C304, C305	ECFR1E222KAY	001 108 0942 8
C306	ECKD1H103PF	001 103 1449 7
C307	ECEA1EU221	001 120 2838 7
C401, C402 ⚠	ECKD1H122KB	001 103 1459 5
C403, C404 ⚠	ECKD1H152KB	001 103 1467 5
C405, C406	ECQB1H472JZ	001 106 3380 8
C407, C408	ECEA1CKS100	001 120 2600 7
C409, C410	ECQM1H473JZ	001 106 0810 9
C411, C412	ECQM1H224JZ	001 106 0746 0
C413, C414	ECAG25ER68L	001 120 1109 7
C415, C416	ECQB1H103JZ	001 106 3225 8
C417, C418	ECQB1H472JZ	001 106 3380 8
C419, C420	ECEA1CKS100	001 120 2600 7
C421, C422	ECQM1H473JZ	001 106 0810 9
R612, R613 (EK, XL)	ERQ14LKR22E	001 190 0738 6
R301 (EK, XL)	ERDS2TJ1R0	001 152 2419 4
R302, R303 (M, MC, E)	ERDS2TJ683	001 152 2450 5
R304, R305 (EG, EH, XA) (XB)	ERDS2TJ100	001 152 2420 1
R306 (EK, XL)	ERDS2TJ391	001 152 2360 6
R307 (M, MC, E)	ERDS2TJ471	001 152 2361 5
R308, R309 (EH, EG, XA) (XB)	ERDS2TJ561	001 152 2364 2
R310 (M, MC, E)	ERDS2TJ331	001 152 2356 2
R311 (EH, EG, XA) (XB)	ERDS2TJ683	001 152 2450 5
R312	ERDS2TJ472	001 152 2362 4
R401, R402	ERDS2TJ242	001 152 3150 0
R403, R404	ERDS2TJ684	001 152 2451 4
R405, R406	ERDS2TJ684	001 152 2451 4
R407, R408	ERDS2TJ562	001 152 2445 2
R409, R410	ERDS2TJ332	001 152 2357 1
R411, R412	ERDS2TJ102	001 152 2346 4
R413, R414	ERDS2TJ333	001 152 2358 0
R415, R416	ERDS2TJ823	001 152 2456 9
R417, R418	ERDS2TJ512	001 152 2596 8
R419, R420	ERDS2TJ683	001 152 2450 5
R421, R422	ERDS2TJ222	001 152 2353 5
R423, R424	ERDS2TJ823	001 152 2456 9
R601, R602	ERDS2TJ391	001 152 2360 6
R603	ERDS2TJ102	001 152 2346 4
R605	ERDS2TJ182	001 152 2352 6
R606	ERDS2TJ103	001 152 2347 3
R607	ERDS2TJ223	001 152 2432 7
R608	ERDS2TJ473	001 152 2363 3
R609	ERDS2TJ103	001 152 2347 3
R610 (M, MC, E) (EH, EG, XA) (XB)	ERDS1FJ560	001 152 2635 8
R610 (EK, XL)	ERG2ANJ560	001 151 0172 1
R611 (M, MC, E) (EH, EG, XA) (XB)	ERDS1FJ560	001 152 2635 8
R611 (EK, XL)	ERG2ANJ560	001 151 0172 1
R614 (M, MC, E) (EG, EH, XA) (XB)	ERX1ANJ6R8	001 151 0445 5
R614 (EK, XL)	ERX1ANJ8R2	001 151 0447 3
R614	SMX51-3	016 600 0218 5
R615 ⚠ (M, MC, E) (EH, EG, XA) (XB)	ERDS1FJ2R2	001 152 2755 1
R616 (M, MC, E) (EH, EG, XA) (XB)	ERDS1FJ4R7	001 152 2631 2
R701, R702	ERDS2TJ271	001 152 2435 4
R703	ERDS2TJ271	001 152 2435 4
R704, R705	ERDS2TJ272	001 152 2354 4
R707, R708	ERDS2TJ271	001 152 2435 4
R709, R710	ERDS2TJ271	001 152 2435 4
R711, R712	ERDS2TJ271	001 152 2435 4
R713, R714	ERDS2TJ272	001 152 2354 4
R715, R716	ERDS2TJ272	001 152 2354 4
R801, R802	ERDS2TJ104	001 152 2348 2
R803, R804	ERDS2TJ821	001 152 2454 1
R805, R806	ERDS2TJ104	001 152 2348 2
R807, R808	ERDS2TJ821	001 152 2454 1
R809, R810	ERX2ANJ180	001 151 0133 8
R811, R812	ERDS2TJ392	001 152 2439 0
R813, R814	ERDS2TJ471	001 152 2361 5
R815, R816	ERDS2TJ223	001 152 2432 7
R817, R818	ERDS2TJ103	001 152 2347 3
R819, R820	ERDS2TJ225	001 152 3149 3
R821	ERDS2TJ391	001 152 2360 6
R823, R824	ERDS2TJ223	001 152 2432 7
R825, R826	ERDS2TJ103	001 152 2347 3
R827	ERDS2TJ103	001 152 2347 3
R829	ERDS2TJ104	001 152 2348 2
R831	ERDS2TJ102	001 152 2346 4
R833	ERDS2TJ103	001 152 2347 3
R835, R836	ERG1ANJ390	001 151 0066 2
R902, R903	ERDS2TJ103	001 152 2347 3
R913, R914	ERDS2TJ223	001 152 2432 7
C423, C424	ECQM1H224JZ	001 106 0746 0
C425, C426	ECAG25ER68L	001 120 1109 7
C427, C428	ECCD1H820K	001 103 0703 6
C601	ECEA1CGE332	001 120 5555 3
C602	ECEA1CGE222	001 120 6143 5
C603, C604	ECEA1CU222	001 120 3074 3
C605	ECEA1AU221	001 120 3131 1
C606	ECEA1AK330	001 120 0178 8
C607, C608	ECKD1H103PF	001 103 1449 7
C609, C610	ECKD1H103PF	001 103 1449 7
C611	ECEA1EK4R7	001 120 0294 5
C612	ECEA0JU222	001 120 3161 5
C613	ECEA1CKS100	001 120 2600 7
C614	ECEA1AU221	001 120 3131 1
C615	ECEA1AU471	001 120 3029 8
C616 (E, EH, EG) (EK, XL, XA) (XB)	ECKD2H682PEL	
C617 ⚠ (EK)	ECKDKC103PF2	001 103 3734 7
C617 (M, MC, E) (EG, EH, XL) (XA, XB)	ECKDNS103ZV	001 103 6921 4
C618 (EG)	ECBT1H102KB	001 103 5026 0
C619	ECEA0JS102	001 120 0152 8
C801	ECEA1HK010	001 120 0341 5
C803	ECEA1EK4R7	001 120 0294 5
C805, C806	ECEA1CN100S	001 120 0233 8
C901, C902	ECKD1H103PF	001 103 1449 7
C907, C908	ECCD1H330K	001 103 0567 6
C909, C910	ECEA1HK010	001 120 0341 5
C911	ECEA1AU101	001 120 2830 5
C913	ECEA1HKR47	001 120 0338 0
C914	ECEA1EK3R3	001 120 0292 7
C915 (EG)	ECKD1H223PF	001 103 1510 9
C970	ECEA1AU101	001 120 2830 5
C971	ECEA1CK101	001 120 3096 7
C973	ECKD1H103PF	001 103 1449 7
C974	ECEA1CU101	001 120 2926 8

■ BLOCK DIAGRAM



■ WIRING CONNECTION DIAGRAM



■ REPLACEMENT PARTS LIST

Notes:
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Code	Description
CASSETTE DECK			
101	SMQA1043	005 500 7741 7	SCREW
			TAPE A
101	XSN2+10	005 500 1260 3	SCREW
			TAPE B
102	SMQA1001	016 726 0827 7	SPRING
			TAPE B
102	SMQA1141		MAGNETIC HEAD TAPE A
103	SMQA1046		NUT
104	SMQA1047	016 641 0257 9	GUIDE
			TAPE A
104	SMQA1184	001 270 1867 9	MAGNETIC HEAD
			TAPE B
105	SMQA1048	001 036 0036 2	PHOTO ELECTRIC TRANSDUCER
			TAPE A
106	SMQA1049	016 726 0878 6	COIL SPRING
			TAPE A
106	SMQA1186	016 632 1919 1	TAPE GUIDE
			TAPE B
107	SMQA1002	016 641 0245 3	SPACER
			TAPE B
107	SMQA1050	016 726 0879 5	COIL SPRING
			TAPE A
108	SMQA1003	016 630 1752 6	PLATE
			TAPE B
108	SMQA1051	016 630 1779 5	PLATE
			TAPE A
109	SMQA1004	016 726 0826 8	SPRING
110	SMQA1164	016 713 0416 3	SCREW
111	XTS3+6F	005 501 3545 0	TAPPING SCREW
112	SMQA1005	016 740 0114 1	ROLLER
113	SMQA1006	016 726 0825 9	SPRING
114	SMQA1052	016 740 0121 2	ROLLER
			TAPE A
115	SMQA1053	016 726 0880 2	COIL SPRING
			TAPE A
116	SMQA1091	016 862 1061 4	INDICATION PLATE,LABEL
			TAPE A
117	SMQA1054	016 630 1780 2	PLATE
			TAPE A
118	SMQA1010	016 765 0056 7	WASHER
119	SMQA1013	016 913 0004 5	REEL
120	SMQA1026	016 913 0003 6	REEL
121	SMQA1014	016 641 0246 2	WASHER
122	SMQA1007	016 862 1041 8	WASHER
123	XTN3+10G	005 501 0353 8	SCREW
			TAPE A
124	SMQA1009	016 643 0966 7	SPACER
125	SMQA1011	016 717 0254 3	ARM
			TAPE B
125	SMQA1055	016 717 0257 0	ARM
			TAPE A
126	SMQA1012	016 726 0835 7	SPRING
127	SMQA1056	016 718 3358 9	LEVER
128	XTN3+4F	005 501 0412 4	TAPPING SCREW
129	SMQA1181	003 455 0411 8	PLUNGER
132	SMQA1147	016 630 1884 5	CHASSIS ASS'Y
			TAPE A
132	SMQA1224	016 630 1889 0	CHASSIS ASS'Y
			TAPE B
133	SMQA1061	016 742 0039 5	IDLER PULLEY
135	SMQA1024	016 726 0834 8	SPRING
136	SMQA1062	016 726 0881 1	SPRING
137	XYN26+C3	005 503 0738 5	SCREW
138	SMQA1029	016 640 0459 6	CAP
139	SMQA1063	016 630 1783 9	PLATE
			TAPE A
140	SMQA1064	016 726 0882 0	COIL SPRING
			TAPE A
141	SMQA1023	003 434 1024 8	SW
142	XTN2+7C	005 501 3506 7	TAPPING SCREW
143	SMQA1031	005 513 4185 4	WASHER
144	SMQA1065	016 756 0084 4	WHEEL
(M, MC, XL)			TAPE A
(XA, XB, PA)			TAPE A
(PE)			TAPE A
144	SMQA1096	016 756 0086 2	WHEEL
(E, EH, EG)			TAPE A
(EK)			TAPE A
145	SMQA1032	016 756 0083 5	WHEEL
(E, EH, EG)			
(EK)			
145	SMQA1066	016 756 0085 3	WHEEL
(M, MC, XL)			TAPE B
(XA, XB)			TAPE B
145	SMQA1066	016 756 0085 3	WHEEL
(M, MC, XL)			TAPE A
(XA, XB, PA)			TAPE A
(PE)			TAPE A
146	SMQA1123	016 745 0226 9	GEAR
147	SMQA1097	016 643 1004 4	SPACER
148	SMQA1068	016 650 5303 9	BRACKET
149	XTN26+6C	005 501 0318 1	TAPPING SCREW
150	SMQA1069	016 718 3359 8	DET. LEVER
			TAPE A
151	SMQA1070	003 454 0638 6	PLUNGER
152	XTN26+8C	005 501 0323 4	TAPPING SCREW
153	SMQA1071	016 643 0989 0	WASHER
155	SMQA1073	016 718 3360 5	LEVER
156	SMQA1038	016 752 0126 1	FLAT BELT
(E, EH, EG)			TAPE B
(EK)			TAPE B
156 [M, MC, XL] [XA, XB]	SMQA1074	016 752 0127 0	FLAT BELT
			TAPE A
156 [E, EH, EG] [EK]	SMQA1124	016 754 0077 3	ANGULAR BELT
			TAPE A
156	SMQA1244	016 752 0128 9	PLASTIC SPACER
(M, MC, XL)			TAPE B
(XA, XB)			TAPE B
157	SMQA1125	002 310 2495 4	DC MOTOR
158	SMQA1036	002 310 2270 9	DC MOTOR
159	SMQA1076	016 631 0055 3	FRAME,HOLDER
			TAPE A
160	SMQA1025	016 718 3349 0	DET. LEVER
161	XTN26+5F	005 501 0310 9	SCREW
			TAPE A
162	SMQA1223	016 632 1950 2	ANGLE
165	SMQA1079	016 640 0487 2	CAP
			TAPE A
166	XYN26+C6	005 503 0554 1	SCREW
167	SMQA1080	016 717 0258 9	ARM
			TAPE A
168	SMQA1081	016 717 0259 8	ARM
			TAPE A
169	SMQA1082	016 726 0884 8	COIL SPRING
			TAPE A
170	SMQA1083	016 726 0886 6	COIL SPRING
			TAPE A
171	SMQA1148	016 632 1947 7	ANGLE
172	SMQA1149	016 632 1946 8	ANGLE
173	SMQA1114	016 718 3414 8	DOOR ROCK
174	SMQA1131	016 718 3378 5	LEVER
175	SMQA1133	016 726 0935 4	COIL SPRING
176	XTS2+4F	005 501 4873 3	TAPPING SCREW
177	SMQA1221	016 643 1080 2	COLOR
178	SMQA1222	016 713 0438 7	SCREW
179	XTN3+5C	005 501 3249 5	TAPPING SCREW
180	SMQA1058	003 435 6131 1	SW, PACK
			TAPE A
181	SMQA1059	003 435 6132 0	SW
182	SMQA1021	016 643 0965 8	SPACER
183	SMQA1041	001 035 0392 0	PHOTO ELECTRIC TRANSDUCER
184	SMQA1022	016 643 0964 9	SPACER
185	SMQA1040	003 434 1025 7	SW
			TAPE A
186	SJT30640LX-V	003 410 6149 8	CONNECTOR(6-P)
186	SJT30740LX-V	003 410 5990 7	CONNECTOR(7-P)
			TAPE B
186	SJT30840LX-V	003 410 5998 9	CONNECTOR(8-P)
			TAPE A
186	SJT31040LX-V	003 410 6112 1	LUG TERMINAL
			TAPE A

■ MECHANISM PARTS LOCATION

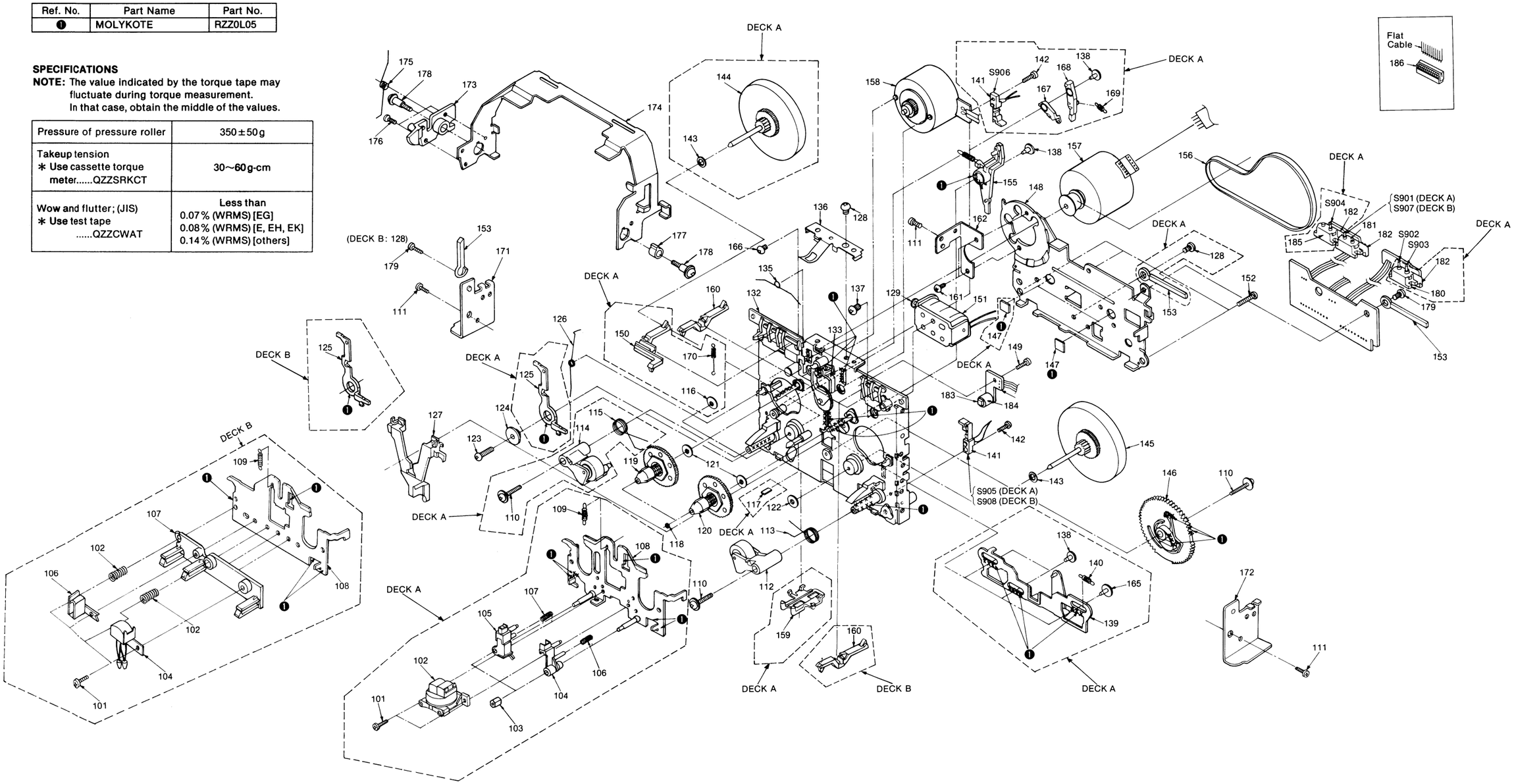
NOTES:
- When changing mechanism parts. apply the specified grease to the are marked "× ×" shown in the drawing "Mechanical Parts Location".

Ref. No.	Part Name	Part No.
❶	MOLYKOTE	RZZ0L05

SPECIFICATIONS

NOTE: The value indicated by the torque tape may fluctuate during torque measurement. In that case, obtain the middle of the values.

Pressure of pressure roller	350±50g
Takeup tension * Use cassette torque meter.....QZZSRKCT	30~60g-cm
Wow and flutter; (JIS) * Use test tape .....QZZCWAT	Less than 0.07% (WRMS) [EG] 0.08% (WRMS) [E, EH, EK] 0.14% (WRMS) [others]



| | | |

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- **S601** : Power switch in "**off**" position.
- **S602** : Voltage selector in "**240V**" position ([XA, XB] area only).
- **S701** : DECK [A] Rew/FF switch in "**off**" position.
- **S702** : DECK [B] Rew switch in "**off**" position.
- **S703** : DECK [A] FF/Rew switch in "**off**" position.
- **S704** : DECK [B] FF switch in "**off**" position.
- **S705** : DECK [A] Play (REV) switch in "**off**" position.
- **S707** : DECK [A] Play (FWD) switch in "**off**" position.
- **S708** : DECK [B] Play switch in "**off**" position.
- **S709** : DECK [A] Stop switch in "**off**" position.
- **S710** : DECK [B] Stop switch in "**off**" position.
- **S711** : DECK [A] Pause switch in "**off**" position.
- **S712** : Syncro-recording-start switch.
- **S713** : DECK [A] Auto rec. mute switch in "**off**" position.
- **S715** : DECK [A] Rec. switch in "**off**" position.
- **S721** : Dolby NR off switch in "**off**" position.
- **S722** : Dolby NR B switch in "**off**" position.
- **S723** : Dolby NR C switch in "**off**" position.
- **S731** : Edit-recording mode switch in "**off (X1)**" position.
- **S732** : Edit-record switch in "**off**" position.
- **S741** : Repeat (⇆) switch in "**off**" position.
- **S742** : Revers (⇄) switch in "**off**" position.
- **S743** : One way (⇉) switch in "**off**" position.
- **S744** : Series (⇆) switch in "**off**" position.

  } Reverse mode selector

- **S901** : DECK [A] ATS (Metal/CrO_2) switch in "**off**" position.
- **S902** : DECK [A] ATS (70/120μs) switch in "**off**" position.
- **S903** : DECK [A] Rec. inhibit (REV) switch in "**off**" position.
- **S904** : DECK [A] Rec. inhibit (FWD) switch in "**off**" position.
- **S905** : DECK [A] Play ditection switch in "**off**" position.
- **S906** : DECK [A] Direction switch in "**off**" position.
- **S907** : DECK [B] ATS (70/120μs) switch in "**off**" position.
- **S908** : DECK [B] Play ditection switch in "**off**" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
  1K=1,000 (Ω), 1M=1,000k (Ω)
- Capacity are in micro-farads (μF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
  ( )..... Voltage values at record mode.
  For measurement use EVM.
- Important safety notice
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- (—□—) indicates B (bias).
- (▨) indicates the flow of the playback signal.
- (⟹) indicates the flow of the record signal.

∗ Caution!

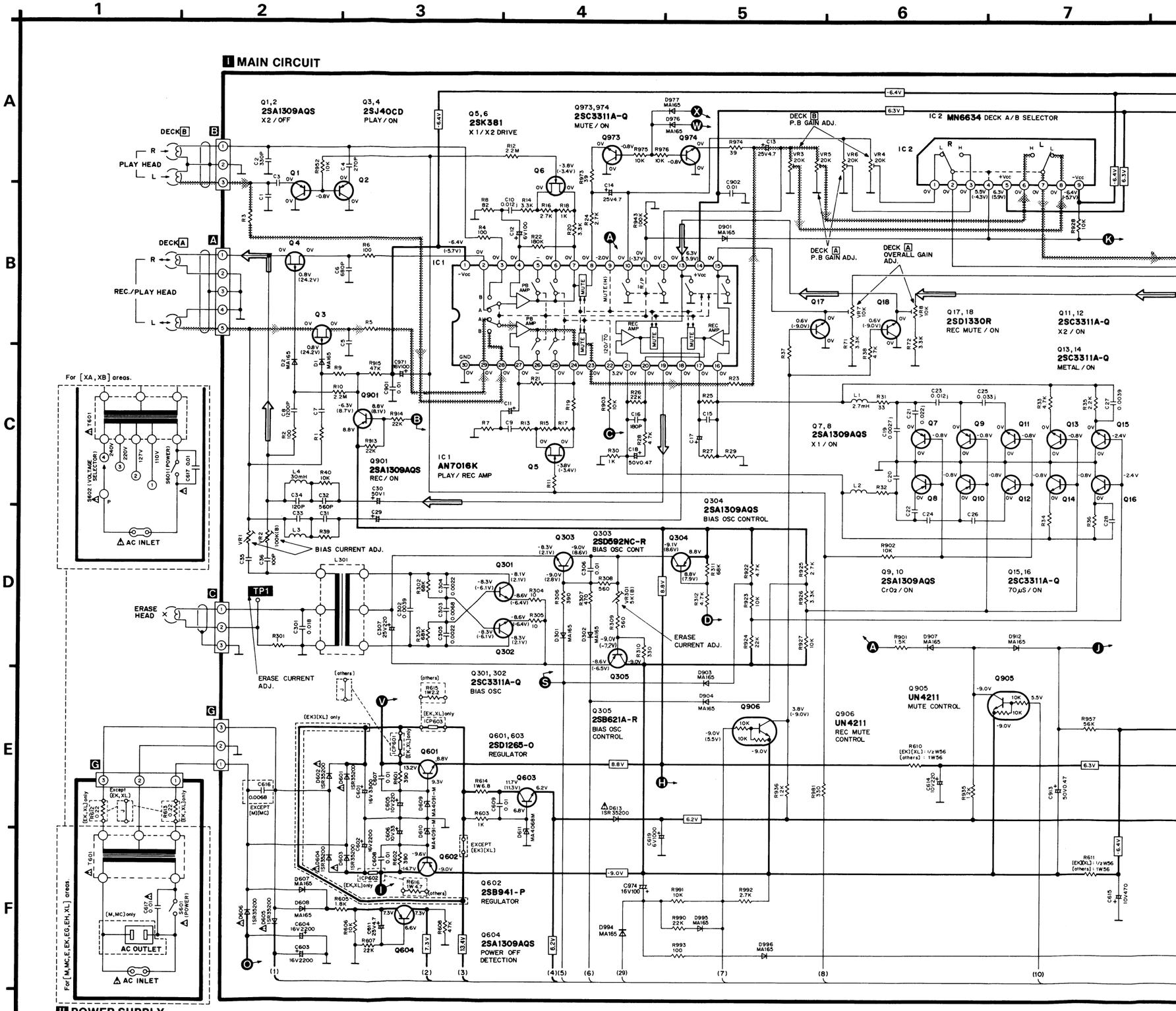
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

∗ Cover the parts boxes made of plastics with aluminum foil.
∗ Ground the soldering iron.
∗ Put a conductive mat on the work table.
∗ Do not touch the legs of IC or LSI with the fingers directly.

■ SPECIFICATIONS

∗ Input level control...MAX

Playback S/N ratio ∗ Test tape...QZZCFM	Greater than 45dB
Overall distortion ∗ Test tape ...QZZCRA for Normal	Normal... Less than 3.5%
Overall S/N ratio ∗ Test tape...QZZCRX	Greater than 43dB

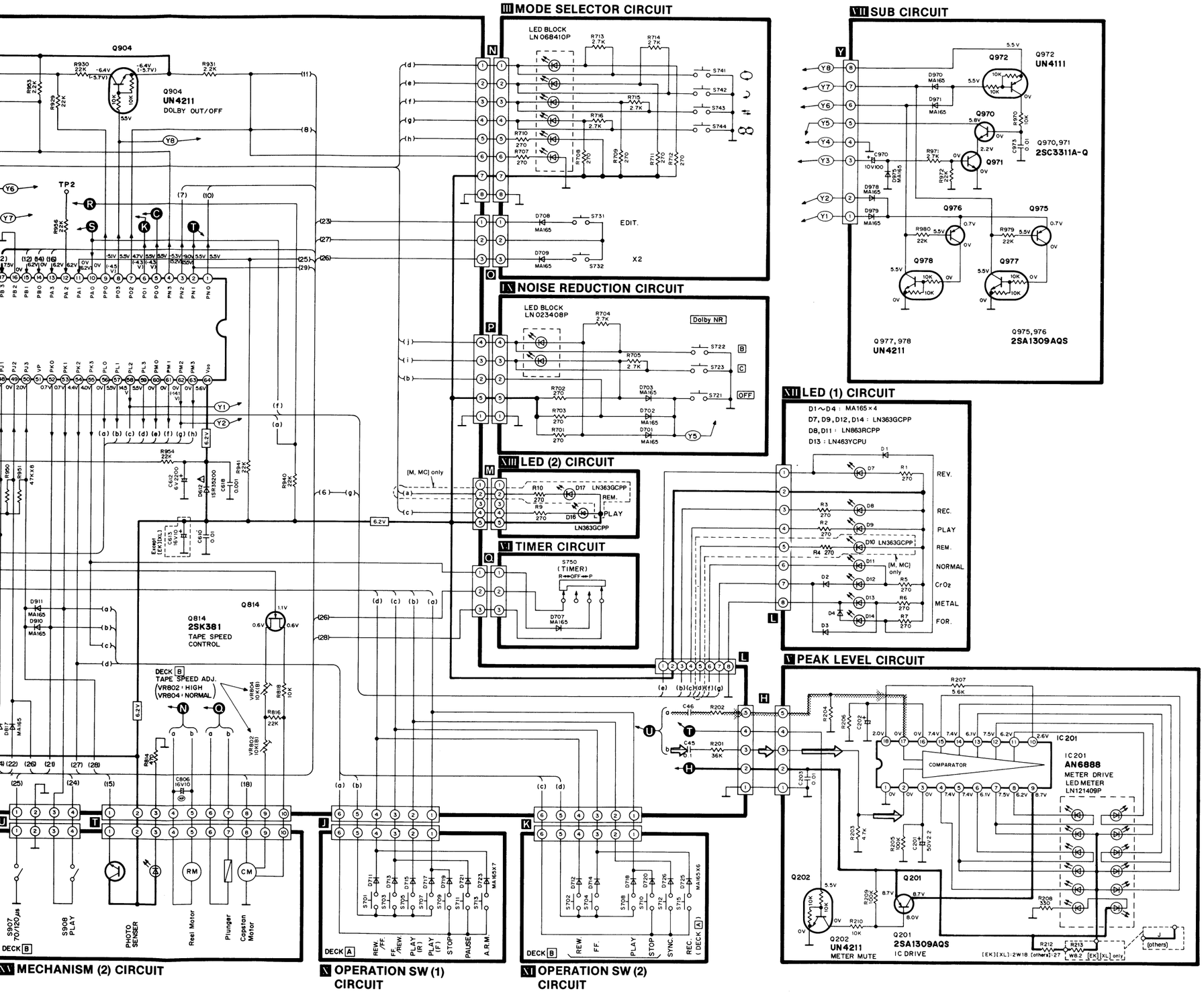


VIII HEADPHONES CIRCUIT

IV REC LEVEL CIRCUIT

XIV MECHANISM (1) CIRCUIT

XV MECHANISM (2) CIRCUIT

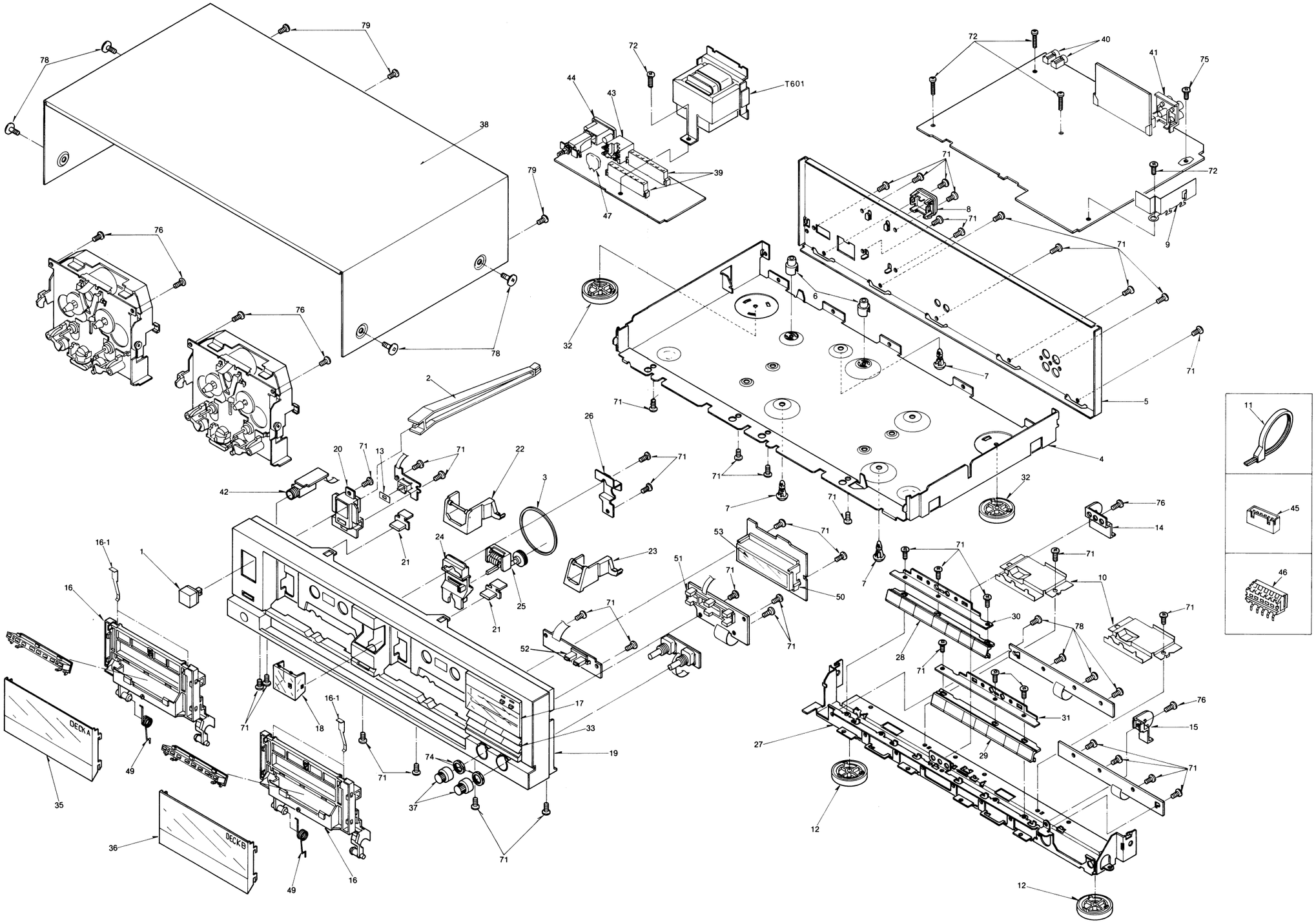


※ Caution!
The microcomputer for system control of this unit **(Ref No. IC901)** has been changed during production.

(OLD)		(NEW)
LC6554H-3355	⇨	**LC6554H-3426**

New type is supplied as the replacement part.

■ CABINET PARTS LOCATION



78 76 76 71 79 71 71 71 74 78 71 79 71 71 72 71 71 71 71 71 71 71 71 71 72 71 78 71 76 71 71 72 76 71 75

35 49 36 38 49 42 37 33 52 47 32 26 43 44 39 51 50 27 28 30 29 31 32 40 41 45 46

16 16-1 1 18 16-1 16 20 13 21 24 2 22 21 17 25 3 19 23 7 6 12 4 7 8 7 5 10 12 14 9 11

■ REPLACEM

Notes: * Important safety n
Components ident
teristics important
these components
parts.
* Bracketed indicati
area.
Parts without these

Ref. No.		Part No.
CABINET AND CHASSIS		
1	Ⓢ	SBC666
1	Ⓚ	SBC666-5
2		SUB266
3		SMQ20022
4		SKU11750
5 (E)		SGP7140-1A
5 (EG, EH)		SGP7140-1C
5 (EK)		SGP7140-1E
5 (XL)		SGP7140-1G
5 (XA, XB)		SGP7140-2A
5 (M, MC)		SGP7140A
6		SHE185
7		SHR9804
8		SJS9331A
9		SMC1267
11		SHR301
12		SKL310
13		SHR6076
14		SMQ.ST33R-K
15		SMQ.ST33R-K
16		SGXST33R-K
16-1		QBP2006A
17		SGU557
18	Ⓚ	SGU558
18	Ⓢ	SGU558-1
19	Ⓚ	SGYST33R-K
19	Ⓢ	SGYST33R-S
20	Ⓚ	SGX7916
20	Ⓢ	SGX7916-1
21	Ⓚ	SBC776
21	Ⓢ	SBC776-1
22		SMQ.40024
23		SMQ.40025
24		SGX7920
25		SJN27
26		SMN2050
27		SMN2047
28	Ⓚ	SBC951
28	Ⓢ	SBC951-1
29	Ⓚ	SBC952
29	Ⓢ	SBC952-1
30		SMN2048
31		SMN2049
32		SKL310
33	Ⓚ	SBCST33R-K
33	Ⓢ	SBCST33R-S
35 (E, EG, EK)	Ⓚ	SGXST33R-K
35 (EH, XL, XA) (XB) (M, MC)	Ⓚ	SGXST33R-K
35 (E, EG, EK) (EH, XL, XA)	Ⓢ	SGXST33R-S

■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

* Ⓚ-marked parts are used for black only, while Ⓢ-marked parts are for silver type only.
* Part other than Ⓚ-and Ⓢ-marked are use for both black and silver type.

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
1 Ⓢ	SBC666	016 702 5545 6	BUTTON, POWER
1 Ⓚ	SBC666-5	016 702 6679 9	BUTTON, POWER
2	SUB266	016 712 0367 0	ROD
3	SMQ20022	016 754 0076 4	COUNTER BELT
4	SKU11750	016 802 2204 9	BOTTOM BOARD
5 (E)	SGP7140-1A	016 840 7990 0	REAR PANEL
5 (EG, EH)	SGP7140-1C	016 840 7991 9	REAR PANEL
5 (EK)	SGP7140-1E	016 840 7992 8	REAR PANEL
5 (XL)	SGP7140-1G	016 840 7993 7	REAR PANEL
5 (XA, XB)	SGP7140-2A	016 840 7994 6	REAR PANEL
5 (M, MC)	SGP7140A	016 840 7931 1	REAR PANEL
6	SHE185	016 918 0330 9	SPACER
7	SHR9804	016 652 0655 8	PLASTIC SPACER
8	SJS9331A	003 403 7236 7	AC OUTLET COVER
9	SMC1267	016 601 0648 2	SHIELD COVER
11	SHR301	016 645 0044 0	CLAMPER
12	SKL310	016 828 0332 8	FOOT
13	SHR6076	016 652 0868 7	PLASTIC SPACER
14	SMQ.ST33R-KM	016 652 0870 3	HOLDER ASSY
15	SMQ.ST33R-KM1	016 652 0869 6	HOLDER ASSY
16	SGXST33R-KM2	016 846 3913 9	CASSETTE LID
16-1	QBP2006A	015 727 0706 8	SPRING
17	SGU557	016 842 1683 2	FILTER
18 Ⓚ	SGU558	016 842 1682 3	FILTER
18 Ⓢ	SGU558-1	016 842 1713 3	FILTER
19 Ⓚ	SGYST33R-KM	016 840 7995 5	FRONT PANEL (K)
19 Ⓢ	SGYST33R-SM	016 840 7996 4	FRONT PANEL (S)
20 Ⓚ	SGX7916	016 846 3870 3	ORNAMENT
20 Ⓢ	SGX7916-1	016 846 3912 0	ORNAMENT
21 Ⓚ	SBC776	016 702 6300 1	BUTTON
21 Ⓢ	SBC776-1	016 702 6576 5	BUTTON
22	SMQ.40024	016 718 3408 6	EJECT LEVER
23	SMQ.40025	016 718 3409 5	EJECT LEVER
24	SGX7920	016 846 3868 7	ORNAMENT
25	SJN27	016 892 0132 2	TAPE COUNTER
26	SMN2050	016 632 1929 9	ANGLE
27	SMN2047	016 632 1938 8	ANGLE
28 Ⓚ	SBC951	016 702 7140 5	BUTTON
28 Ⓢ	SBC951-1	016 702 7139 8	BUTTON
29 Ⓚ	SBC952	016 702 7138 9	BUTTON
29 Ⓢ	SBC952-1	016 702 7137 0	BUTTON
30	SMN2048	016 632 1927 1	ANGLE
31	SMN2049	016 632 1939 7	ANGLE
32	SKL310	016 828 0332 8	FOOT
33 Ⓚ	SBCST33R-KM	016 702 7135 2	BUTTON
33 Ⓢ	SBCST33R-SM	016 702 7136 1	BUTTON
35 Ⓚ (E, EG, EK) (EH, XL, XA) (XB)	SGXST33R-KE	016 846 3902 2	CASSETTE LID
35 Ⓚ (M, MC)	SGXST33R-KM	016 846 3914 8	CASSETTE LID
35 Ⓢ (E, EG, EK) (EH, XL, XA)	SGXST33R-SE	016 846 3900 4	CASSETTE LID
(XB)			
35 Ⓢ (M, MC)	SGXST33R-SM	016 846 3916 6	CASSETTE LID
36 Ⓚ (E, EG, EK) (EH, XL, XA) (XB)	SGXST33R-KE1	016 846 3899 0	CASSETTE LID
36 Ⓚ (M, MC)	SGXST33R-KM1	016 846 3915 7	CASSETTE LID
36 Ⓢ (E, EG, EK) (EH, XL, XA) (XB)	SGXST33R-SE1	016 846 3901 3	CASSETTE LID
36 Ⓢ (M, MC)	SGXST33R-SM1	016 846 3911 1	CASSETTE LID
37 Ⓚ	SBN1228	016 700 2005 1	KNOB
37 Ⓢ	SBN1228-1	016 700 2006 0	KNOB
38 Ⓚ	SKC2100K99	016 800 3147 7	CABINET BODY
38 Ⓢ	SKC2100S98	016 800 3158 4	CABINET BODY
39	SJS703	003 403 7104 8	CONNECTOR
40	SJJ141-1	003 440 7804 8	JACK,SOCKET
41	SJF3057NK	003 410 8123 0	TERMINAL BOARD
42	SJJ134B	003 400 7050 0	JACK, HEADPHONES
43 ⚠ (M, MC)	SJS9331B	003 403 7275 0	AC OUTLET
44 ⚠ (M, MC, XL)	SJSD16	003 400 7436 6	AC INLET
44 ⚠ (E, EG, EK) (EH, XA, XB)	SJS9236	003 403 4660 7	AC INLET
45	SJT3319	003 403 3892 7	CONNECTOR
45	SJT3511	003 403 3893 6	CONNECTOR(5-P)
45	SJT3809	003 410 6013 3	CONNECTOR
46	SJT30340LX-V	003 410 6075 9	CONNECTOR(3-P)
46	SJT30540LX-V	003 410 5996 1	CONNECTOR(5-P)
46	SJT30640LX-V	003 410 6149 8	CONNECTOR(6-P)
46	SJT30840LX-V	003 410 5998 9	CONNECTOR(8-P)
47 (E, EG, EK) (EH, XL, XA) (XB)	SMX888	016 600 0358 4	SHIELD PARTS
48 (XA, XB)	SUW3079	016 650 5415 2	BRACKET, FOR V.ADJ
49	SUS862	016 726 1024 0	SPRING
50	SHE224	016 918 0635 5	PARTS KIT
51	LN068410P	001 033 0356 4	DIODE, GAASP
52	LN023408P	001 033 0354 6	DIODE, GAASP
53	LN121409P	001 033 0360 8	DIODE, GAASP
SCREWS, WASHERS & NUTS			
71	XTB3+8JFZ	005 501 0138 3	SCREW
72	XTB3+16JFZ	005 501 1169 2	
73	XTB3+6FFZ	005 501 1590 3	SCREW
74	XNS9	005 507 0574 7	NUT
75	XTBS3+10JFR1	005 501 4861 7	TAPPING SCREW
76	XTB3+12JFZ	005 501 2078 0	SCREW
77	XTS3+8JFZ	005 501 2270 2	SCREW
78 Ⓢ	SNE2129	005 500 8058 5	SCREW
78 Ⓚ	SNE2129-1	005 500 7938 6	SCREW
79 Ⓢ	XTB3+8J	005 501 1535 0	SCREW
79 Ⓚ	XTB3+8JFZ	005 501 0138 3	SCREW
80 (XA, XB)	XTB3+8JFZ	005 501 0138 3	SCREW

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1 (M)	SPG5954	016 971 5131 3	CARTON BOX
P1 Ⓚ (MC, E, EH) (EG, EK, XA)	SPG5993	016 971 5130 4	CARTON BOX
P1 Ⓢ (MC, E, EH) (EG, EK, XA)	SPG5994	016 971 5132 2	CARTON BOX
P1 (XL)	SPG5995	016 971 5129 7	CARTON BOX
P2	SPS4991	016 977 3347 7	PAD
P3	SPS4992	016 977 3348 6	PAD
P3 (XL)	SPS4992-1	016 977 3349 5	PAD
P4	SPS4905	016 977 3274 7	PAD
P5 Ⓚ	SPP756	016 978 0540 5	PROTECTION COVER
P5 Ⓢ	XZB50X65B02	016 978 0420 2	PROTECTION COVER
ACCESSORIES			
A1 (E, EK, EH) (XL, XA)	SQF12935	016 983 5314 2	INSTRUCTION BOOK
A1	SQF12937	016 983 5339 3	INSTRUCTION BOOK
(EG)			
A1	SQF12938	016 983 5340 0	INSTRUCTION BOOK
(M)			
A1	SQF12939	016 983 5341 9	INSTRUCTION BOOK
(MC)			
A1	SQF13043	016 983 5338 4	INSTRUCTION BOOK
(XB)			
A2 ⚠ (E, EG, EH)	SFDAC05E03	003 490 4809 5	POWER CORD
A2 ⚠ (EK)	SFDAC05G02	003 490 2613 3	POWER CORD
A2 ⚠ (XA)	SJA168-1	003 490 4122 9	POWER CORD
A2 ⚠ (M, MC)	SJA172	003 490 4069 7	POWER CORD
A2 ⚠ (XL)	SJA173	003 490 4161 2	POWER CORD
A2 ⚠ (XB)	SJA183	003 490 4873 7	POWER CORD
A3 (M, MC)	SJP2257T	003 492 6803 3	CORD
A4 ⚠ (XA, XB)	SJP9215	003 402 1437 9	AC PLUG ADAPTOR
A5	SJPK2202	003 492 6415 1	CORD

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